

PERMIT APPLICATION

RCRA OPERATING PERMIT RENEWAL APPLICATION

Safety-Kleen Systems, Inc. Sanford Service Center 600 Central Park Drive Sanford, FL 32771

November, 2018

Prepared for:

Safety-Kleen Systems, Inc. 2600 North Central Expressway Suite 200 Richardson, Texas 75080

Revis	ion Number	0	
Date	11/10/18		
Page	1 of 4		

APPLICATION FOR A HAZARDOUS WASTE PERMIT PART I – GENERAL TO BE COMPLETED BY ALL APPLICANTS

Please Type or Print

A.	General Information
1,	Type of Facility in accordance with Part 270.13(a) DISPOSAL
	☐ Landfill ☐ Land Treatment ☐ Surface Impoundment
	Miscellaneous Units Type of Unit
	STORAGE
	Containers Tanks Piles
	Surface Impoundment Containment Building
	Miscellaneous Unit Type of Unit
	TREATMENT
	Tanks Piles Surface Impoundment
	☐ Incineration ☐ Containment Building
	Boiler / Industrial Furnace Type of Unit
	Miscellaneous Unit Type of Unit
2.	Type of application:
	Construction Permit
	Operation Permit
	Construction & Operation Permit
	Research, Development & Demonstration (RD&D) Permit
	Postclosure Permit
	Clean Closure Plan
	Subpart H Remedial Action Plan
	☐ Equivalency Demonstration
3.	Revision Number:0
4.	Date current operation began, or is expected to begin: 01 /31 /1993
5.	Facility Name Safety-Kleen Systems, Inc.
6.	EPA/DEP I.D. No. FLD 984 171 165
7.	Facility location or street address 600 Central Park Drive

Revision N	umber	0	
Date 11/1	0/18		
Page 2	of 4		

8.	Facility mailing address	600 Central Park Driv	/e				
		Sanford	street or P.O. Box FL	32771			
9.	Contact person <u>Jeff C</u>	city	state Telephone	(561) 523-4719			
	Title Sr. Environmental Compliance Manager						
	Mailing address	5610 Alpha Drive	street or P.O. Box				
		Richardson Boynto	state	∠ 75080 3342 zip			
	E-mail address	ieff.curtis@safetv-kle	en.com				
10.	Operator's name Safe	tv-Kleen Systems. Inc.	Telephone	(972)265-2000			
	Mailing address	2600 North Central E	xpresswav. Suite	200			
		Richardson	TX	75080			
	E-mail address	city ieff.curtis@safetv-kle	state en.com	zip			
11.	Facility owner's name	Safety-Kleen Systems.	Inc. Telephone	(972)265-2000			
	Mailing address	2600 North Central E		200			
		Richardson	street or P.O. Box TX	75080			
	E-mail address	city ieff.curtis@safetv-kle	state	zip			
12.	Legal structure		_	_			
	Corporation	Non-profit corporation	Partnership	☐ Individual			
	Local government	☐ State government	Federal gov	ernment			
13.	If an individual, partner the county and state w	ship, or business is oper here the name is register	ating under an ass ed.	umed name, specify			
	County	State	-				
14.	If the legal structure is a corporation, indicate the state of incorporation.						
	State of incorporation Wisconsin						
15.	If the legal structure is an individual or partnership, list the owners.						
	Name						
	Address						
	Street	r P.O. Box	city s	state zip			
	Name						
	Address	DO D	aitu.	toto 710			
	Street o	r P.O. Box	city	state zip			

Revis	ion l	Number	0	
Date	11/	10/18		
Page	3	of 4		

16.		d 🔲 To be pure	chased		
	If leased, ir	ndicate land owne	r's name		
	Address _	Street or P.O. E		state	zip
17.	E-mail add	ress <u> </u>	.curtis@safety-kleen. V. Fox	egistration No.	0980
	Address 1	0210 Highland I Street or P.O. E	Manor Drive, Suite 14 Box city	state	zip
18.	Associated Is the facili	ty located on Triba	ental Resources Mana	No	
19.	Existing or	pending environm	nental permits (attach a	separate sheet if r	necessary)
NAME	OF PERMIT	AGENCY	PERMIT NUMBER	DATE ISSUED	EXPIRATION DATE
HW	Permit	FDEP	22198-HO-007	5/13/2014	5/10/2019
UO/Fi	lter Trans	FDEP	FLD984171165	3/1/18	6/30/19
HW	Trans	FDEP	FLD984171165	3/6/18	6/30/19
Lamps	s/Mercury	FDEP	FLD984171165	2/2/18	3/1/19
B. 1.	Site Information The facility is located in Seminole County.				
	The nearest community to the facility is Sanford 28 48' 23.38" N 81 19' 04.42" W				

3. Attach a scale drawing and photographs of the facility showing the location of all past, present, and future treatment, storage and disposal areas. Also show the hazardous wastes traffic pattern including estimated volume and control.

acres.

 ${\color{red} \textbf{Method and datum}} \ \underline{{\color{red} \textbf{Google Earth}}}$

The area of the facility site is $\underline{3.2}$

2.

Revision	Number	0
Date 11/	10/18	
Page 4	of 4	

4.	Attac this p	h a topographic map which shows all the features indicated in the instructions for art.
5.	Is the	facility located in a 100-year flood plain?
6.	The f	acility complies with the wellhead protection requirements of Chapter 62-521, F.A.C
C.		Use Information
1.	The p	resent zoning of the site is Light Industrial
2.	If a zo	oning change is needed, what should the new zoning be? N/A
D.		ating Information
1.	ls wa	ste generated on-site?
2.	List th	ne NAICS codes (5 to 6 digits) 562112
3.	Use t	he codes and units provided in the instructions to complete the following table. fy:
	a.	Each process used for treating, storing or disposing of hazardous waste (including design capacities) at the facility, and
	b.	The hazardous waste(s) listed or designated in 40 CFR Part 261, including the annual quantities, to be treated, stored, or disposed by each process at the

PROCESS DESIGN CAPACITY AND UNITS OF MEASURE	HAZARDOUS WASTE CODE	ANNUAL QUANITY OF HAZARDOUS WASTE AND UNITS OF MEASURE
	ii) _i ati	
	CAPACITY AND UNITS OF	CAPACITY AND UNITS OF MASTE CODE MEASURE CODE

facility.

Part I

B. Site Information

3. FACILITY LAYOUT AND TRAFFIC PATTERNS

The facility layout is shown in Figure 2.1-1. The non-building areas of the facility are paved with asphalt, or concrete, as noted on the site plan. Site photographs are provided in Appendix A.

Site traffic patterns are illustrated in Figure 2.1-2. The majority of the vehicular traffic and loading/unloading operation occurs at and near the return/fill area (Area A), which is paved with concrete. Approximately once per week a tractor trailer delivers containerized product and removes containerized waste for transfer to a Safety-Kleen TSDF. This truck backs up to the concrete dock, located on the north-western side of the facility in Area B, to load and unload containers. Areas A & D are used for the loading/unloading of transfer wastes, and containerized permitted wastes from local vans and trucks. The trucks dispatched from the recycle center to deliver parts washer solvent and pick up used parts washer solvent will perform these activities at the above-ground tank truck loading area (Area C) approximately every 20 days. Used oil loading/unloading will also take place in Area C.

U.S. 46, is the major access road to the facility. The access road is designed in accordance with engineering criteria appropriate for sustaining the traffic volume and loading for the industrial activities in this area. The vans that travel the routes daily between the service center and Safety-Kleen customers use the two-lane road within the industrial park (Central Park Drive). Traffic from this facility will have a minor impact on local traffic conditions.

Part I

B. Site Information

4. SITE TOPPOGRAPHY AND SURROUNDING LAND USE

Figure 2.2-1 is a USGS topographic map showing the facility. Due to the small size of the site, all of the information requested in FDEP's application form cannot be placed on one map. Therefore, additional maps are provided here to present the additional information requested in the application form. Specific information requested in the permit application is provided below.

100-Year Floodplain Area

Based on information available from the Federal Emergency Management Agency (Figure 2.2-2), the central occupied portion of the property is outside of the 100-year flood zone. However, the north, west, and south perimeters along Smith Canal are located in the 100-year flood zone (Zone X).

Surface Water Bodies Within One-Quarter Mile of the Facility Property Boundary (e.g., Intermittent Streams and Springs)

Surface water bodies located within one-quarter mile of the facility property boundary include Lockhart Smith Canal, which runs along the northern, western, and southern boundaries of the site, as shown in Figure 2.2-1. Since the last photo revision of the Sanford Quadrangle map in 1988, development in the area has resulted in many manmade stormwater retention ponds being constructed in the vicinity of the site. These figures have been added onto Figure 2.2-1 based on manual annotation from publically available aerial photography of the site vicinity. The locations and shapes are approximate.

Surrounding Land Uses

Surrounding land uses are shown in Figure 2.2-3.

Legal Boundaries of the Facility

Figure 2.2-4 shows the property boundaries.

Drinking Water Wells Listed In Public Records or Otherwise Known to the Applicant Within One-Quarter Mile of the Facility Property Boundary

Information from FDEP's GIS application, Map Direct, is found on the Map Direct Area of Interest Report.

Intake and Discharge Structures Within One Mile

Information on intake and discharge structures within one mile of the facility is shown on the Map Direct Area of Interest Report.

Run-Off Control System

The facility's paved areas are sloped such that rainwater run-off is directed to the retention swales on the north and south sides of the property. Figure 2.2-5 illustrates the contours and anticipated surface water run-off direction. Overflow will discharge into the Smith Canal. Seepage from the swales percolates into the ground water and then into the same canal.

Access Control (fences, gates, etc.)

Figure 2.1-1 shows access control features.

Injection and Withdrawal Wells Both On Site and Off Site

There are no injection or withdrawal wells on site. Results of an inventory of wells Within one mile of the facility are presented on the Map Direct Area of Interest Report.

Buildings and Other Structures

Buildings and other structures are shown in Figure 2.1-1.

Contours Sufficient to Show Surface Water Flow

Figure 2.2-5 shows surface elevations at the facility. The site is nearly flat, with surface elevations in unpaved areas. Paved areas are at slightly higher elevations. Surface water flow is directed toward the drainage catchment basins shown in Figure 2.2-5.

Loading and Unloading Areas

Figure 2.1-2 shows loading and unloading areas in relation to the waste management areas.

Hazardous Waste Units

Figure 2.2-6 shows hazardous waste management units.

Wind Rose

A wind rose for Orlando, Florida is shown in Figure 2.2-7.

FIGURE 2.1-1
SITE LAYOUT MAP
SAFETY-KLEEN SYSTEMS, INC.
SANFORD, FLORIDA

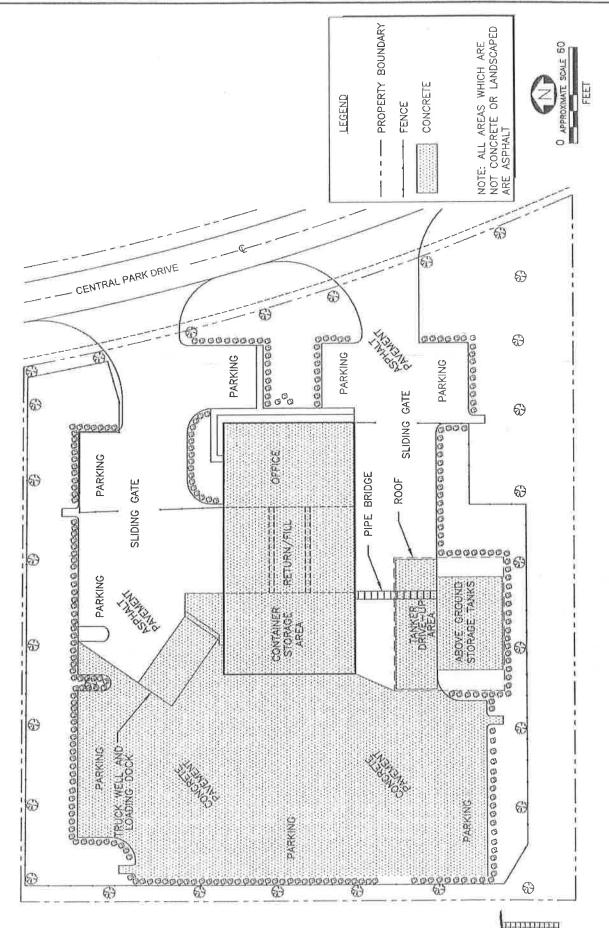


FIGURE 2.1-2
TRUCK TRAFFIC PATTERNS
SAFETY-KLEEN SYSTEMS, INC.
SANFORD, FLORIDA

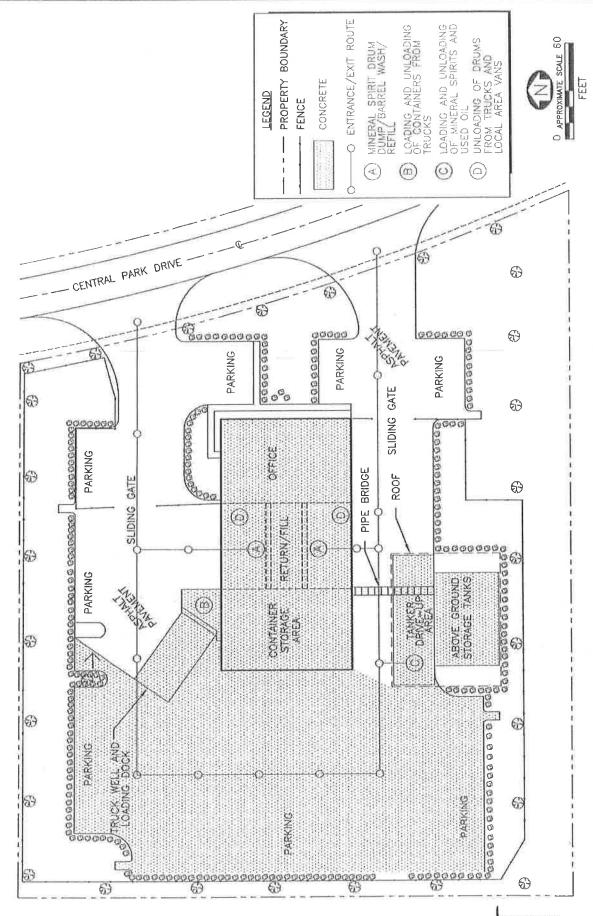


FIGURE 2.2-1 TOPOGRAPHIC MAP SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA

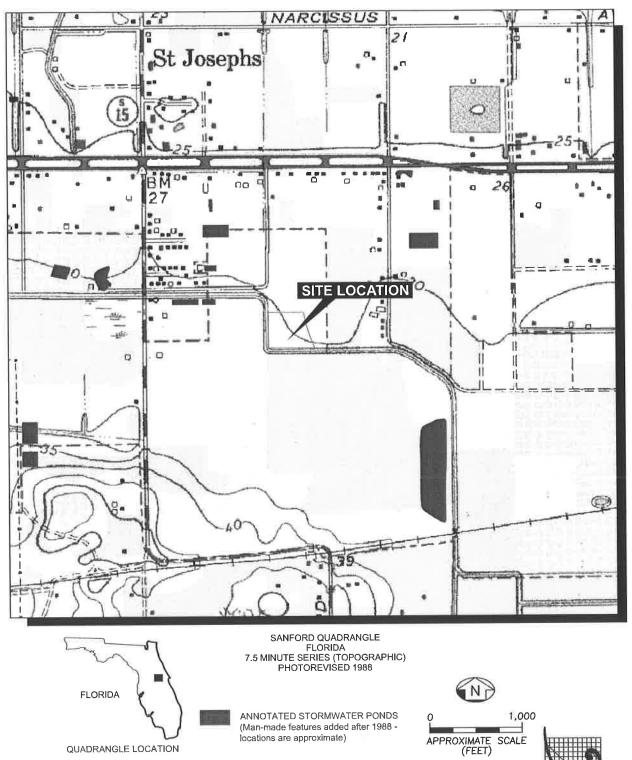
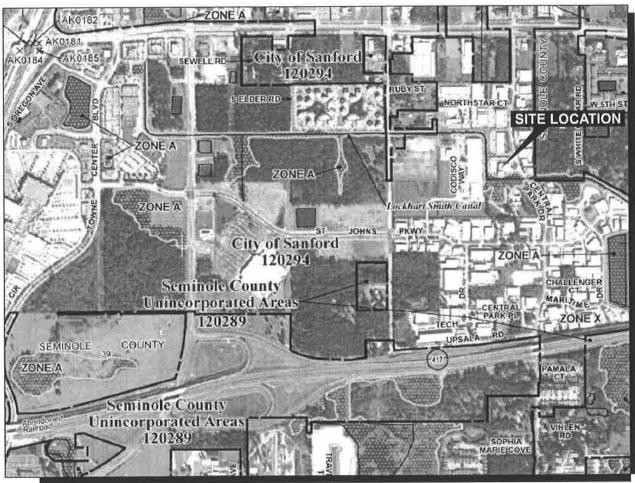




FIGURE 2.2-2 FLOODPLAIN MAP SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA



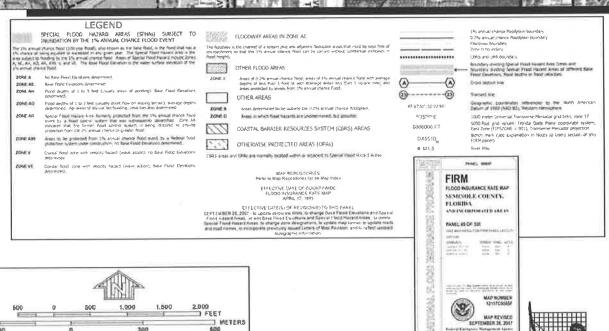
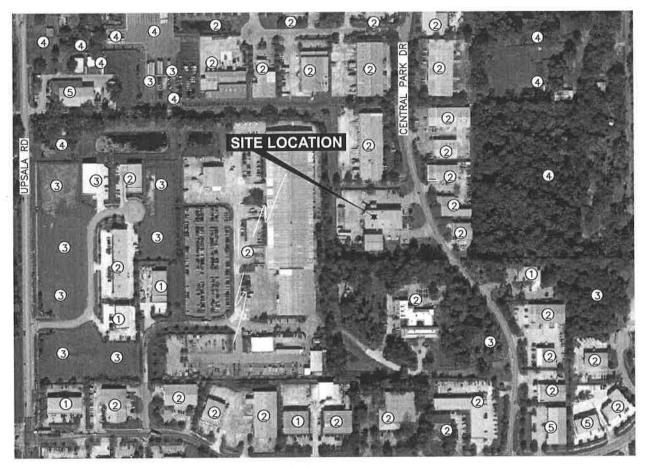




FIGURE 2.2-3 SURROUNDING LAND USE MAP SAFETY-KLEEN SYSTEMS, INC. FACILITY SANFORD, FLORIDA



SOURCE: GOOGLE EARTH PRO AND SEMINOLE COUNTY PROPERTY APPRAISER.

1	OFFICE BUILDING			
2	LIGHT INDUSTRIAL			
3	INDUSTRIAL			
4	RESIDENTIAL			
5	WAREHOUSE			





D. Operating Information

2. DESCRIPTION OF FACILITY OPERATION

Description of the Business

Safety-Kleen Systems, Inc. of Richardson, Texas is an international service oriented company whose customers are primarily engaged in automotive repair and industrial maintenance. Since 1968, Safety-Kleen has been offering a leasing service for petroleum-based hydrocarbon solvents and small parts washing equipment.

Safety-Kleen's solvent cycle is essentially a closed loop, moving from the Branch to the customer, from the customer to the Branch, from the Branch to the recycle facility, and then from the recycle center back to the Branch for redistribution to customers. This closed loop supplies Safety-Kleen with most of its solvent requirements (nearly two-thirds of the clean solvent delivered to the field has been previously used by its customers). Ownership of the solvent remains with Safety-Kleen. Solvent containers (product and waste) are transported in specially-equipped, enclosed route trucks. Five aboveground tanks are maintained at the Safety-Kleen Sanford facility. These tanks are used for storage of one-waste solvent, and one-product 150 Premium Solvent, two-Used Oil, and one-Used Antifreeze.

The Safety-Kleen parts washing equipment, together with the solvents are leased to customers; the leasing charge includes regularly scheduled solvent changes and machine maintenance. The business is conducted from local Branches (sales branches) located in 45 states. The Branches warehouse the products and equipment required to service the customers in their sales area. On a contractual basis, service representatives furnish clean solvent to the customers, pick up the used solvent, and ensure that the leased equipment is in good working order. In 1979, Safety-Kleen expanded their scope of operations to make their solvent leasing service available to owners of parts cleaning equipment, regardless of manufacturer, using Safety-Kleen's solvents.

Basically, Safety-Kleen handles two types of parts washers. The original service offered by the company in 1968 was the parts cleaner service and it remains the primary business activity. This service involves the leasing of a small parts degreasing unit which consists of a sink affixed to a container of parts washer solvent. On a regularly scheduled basis, a Safety-Kleen sales representative cleans and inspects the parts washer machine and replaces the container of used solvent with one of clean product. Safety-Kleen has also established a parts cleaner service for users who own their own machines. This service provides a solvent reclamation service to these customers regardless of machine model. All clean parts washer solvents are delivered to customers in containers. All spent parts washer solvents are transported from the customer to the Branch in containers.

Upon return of the spent solvent to the branch, the material is transferred from the containers to a wet dumpster. Most of the 150 solvent used by customers will be utilized by the Branch for the washing of used containers. After drums have been washed, the spent solvent is pumped into the waste solvent storage tank. Cleaned containers are filled with product solvent in preparation for the next day's services. Periodically, a tanker truck is dispatched from one of the Safety-Kleen TSDF's to deliver a load of clean solvent and collect the spent solvent at the Branch. Containers of clean solvent may be stored at the return/fill station or in the permitted storage areas. Containers of waste solvent may be stored in the permitted storage areas.

A second type of parts washer, the immersion cleaner, is available for the removal of varnish and gum from such things as carburetors and transmissions. This machine consists of an immersible basket with an agitator affixed to a container of the immersion cleaner. The spent solvent remains in the container after delivery to the Branch, where it is stored in a permitted storage area of the warehouse. Periodically, a tanker trailer truck is dispatched from a Safety-Kleen recycle TSDF to deliver fresh solvent and collect the containers of spent solvent for reclamation. Warehouse space is dedicated for the storage of clean immersion cleaner. The immersion cleaner remains in the original covered containers during transfer between the Branch and a Safety-Kleen/Clean Harbors TSDF.

Safety-Kleen provides a dry cleaning waste reclamation service where containers of dry cleaning wastes are collected and stored temporarily at the Branch before shipment to the TSDF centers for reclamation and processing. All dry cleaning wastes remain in their original containers while at the Sanford facility.

Safety-Kleen also provides a paint waste reclamation service. Wastes containing various thinners and paints are collected in containers and stored temporarily at the Branch before shipment to the TSDF centers for reclamation and processing. Paint wastes are managed as permitted wastes, and 10-day transfer wastes. All paint wastes remain in their original containers while at the Sanford facility.

Fluid Recovery Services (FRS) is a program managed by the Safety-Kleen Branch. Under this program, other types of waste are collected by the Branch and sent out to the TSDF centers. The FRS wastes are managed as transfer wastes. Examples of the types of wastes that may be received from FRS customers include:

- Spent hydrocarbon distillates, such as waste fuel, oil, petroleum, naptha, etc.
- Lubricating oils, hydraulic oils, synthetic oils, and machine oils.
- Industrial halogenated solvents such as 1,1,1-trichloroethane, tetrachloroethylene, Freon, and trichloroethane.
- Photographic and x-ray related wastes.
- Paint and lacquer thinners.
- Other hazardous and non-hazardous halogenated and non-halogenated wastes.

10-Day Transfer Storage Area (FRS)

The 10-day transfer storage area is located in the northern portion of the main warehouse, and the northwestern return/fill bay. Signage clearly marks these areas. All hazardous waste containers stored in the 10-day transfer area are manifested and in transit to other permitted facilities. Safety-Kleen Sanford is not the designated facility for wastes stored in the 10-day transfer area.

In 1990 Safety-Kleen began offering a service for the collection of spent antifreeze (ethylene glycol) from automobile service stations. This service is offered in conjunction with Safety-Kleen's used oil collection service. All used antifreeze collected and managed by Safety-Kleen within Florida is recycled. The trucks used to collect and transport waste ethylene glycol are the same trucks used for collection and transport of used oil. The trucks have more than one compartment so the antifreeze is picked up and stored in a separate compartment until off-load at the branch. At the customer locations, Safety-Kleen pumps used ethylene glycol and transports the material to the Branch for off-loading into a tank for storage. The ethylene glycol is held until shipment to be reprocessed into a pure product. This procedure is in accordance with FDEP's *Best Management Practices for Managing Used Antifreeze at Vehicle Repair Facilities*, dated May 22, 2012. In addition, Safety-Kleen sells its' own Khameleon private label antifreeze in 55-gallon containers. Customers will then place used antifreeze in these containers to be shipped back to the branch. This material is shipped to SK distribution centers, and then shipped to 3rd party recyclers.

Safety-Kleen offers a service for the collection of bulk used oil, commonly referred to as Safety-Kleen Oil Services (SKOS). Straight tanker trucks are used to collect and transport bulk used oil. After collection, the used oil is transported to the branch for storage. The Branch is registered as a used oil transfer facility, and may store used oil for more than 24 hours and less than 35 days. The used oil is then transported to the Safety-Kleen Ocala, FL facility. Used oil is subject to specific acceptance criteria prior to collection, and divided into three (3) groups.

Group 1 used oils are derived from automotive sources (auto maintenance, auto retail, dealerships, fleet rental & leasing, quick lubes, marine transportation, mechanical & equipment service, taxi/bus/other local transportation, airlines, railroads, trucking & transportation companies, utilities – natural gas & propane distribution, telecommunications/cable, and water/sewer, etc.). Prior to collection, used oil at these Sites is field tested using a TIF Halogen Leak Detector. Used oil failing the TIF test for SQG/LQG generators will then be tested using the Dexsil Clor-D-Tect kit. Used oil

passing this test may be collected, and used oil failing this test may not be collected. It may be collected at a later date, provided a sample of the used oil has passed the rebuttable presumption for used oil using an analytical method from SW-846.

Group 2 used oils are derived from non-automotive sources and may be acceptable if they receive approval from the Central Profile Group (CPG). Examples of group 2 oil sources are: (utility - electrical distribution/power generation, agricultural production, chemical manufacturing/distribution, electrical equipment & computer manufacturers, exploration – drilling/seismic, fabricated metal products, manufacturers – furniture/millwork/cabinets, fixtures/machine (including medical)/miscellaneous, mining/minerals, primary metal manufacturing, natural gas pipeline/processing, manufacturers – plastic/rubber/glass, oil & gas producers, oilsands mines/SAGD facilities, food & kindred products, manufacturers - asphalt/paper products & packaging materials/shoe/leather/textiles & apparel, printing, lumber/wood products, lumber mills, pulp & paper mills, biotechnology, pharmaceutical, refineries, ship builders, steel mills, asphalt terminal, liquid/petroleum, pipeline, liquid/petroleum terminal, manufacturers transportation equipment, etc.) Group 2 used oils require a pre-qualification sample to be taken and submitted for analysis (Flash point, PCB's, Halogens, Silicone, and VOC's). Pre-qualification results must be approved prior to initial collection. If the generating process changes, or if no oil is picked up for over one year, a pre-qualification sample must be submitted for approval again. Field testing procedures are the same as the above group 1.

Group 3 are any oils not falling into the Group 1/2 categories, and will not be accepted into the SKOS program. Examples of Group 3 oils are, but not limited to: (electrical insulating oil/transformer oil, gasoline, form release oil, rust preventatives, silicone heat transfer fluid, hydraulic oil dye, diesel fuel treatment, motor flushes, penetrating oil, kerosene, cooking oil, crude oil, distillate fuels, animal fats, TSCA regulated oils, urethane coating, etc.)

In 1996, the Branch became registered in Florida as a transporter and storage facility for

mercury-containing lamps and devices destined for recycling. This registration includes a commitment to comply with the regulations of Florida Administrative Code (FAC) 62-737.400. As a registered small quantity handler of universal waste lamps/mercury devices, the Branch can only store up to 2,000 Kg of lamps or 100 Kg of mercurycontaining devices at any one time. Safety-Kleen provides customers with empty fourfoot and eight-foot boxes which hold up to 39 lamps. Boxes containing lamps are picked up from customers and are handled at the Branch as non-hazardous transfer wastes. The boxes are stored at the Branch in a designated area, labeled in accordance with FAC 62-737.400(5)(b), and partially isolated from other transfer wastes to avoid potential for accidental breakage. The boxes are periodically shipped to a permitted mercury recovery or reclamation facility. Prior to shipment out of the Branch, the boxes are placed on pallets and shrink-wrapped with plastic. Safety-Kleen handles all types of batteries with the exception of lithium batteries. All applicable batteries, per 40 CFR Part 273.2 & 273.9, are managed in accordance with the Standards For Universal Waste Management found in 40 CFR Part 273. Batteries not meeting these standards may be managed as 10day transfer hazardous waste.

Containers of hazardous waste are picked up at customer locations and transported back to the Branch in route trucks. Each route truck is equipped with a hand-truck and electric lift gate for movement of containers. Upon arrival at the Branch, containers are placed on pallets and moved by way of forklift to the appropriate areas. Containers of used parts washer solvent are unloaded at the return/fill area and are dumped by hand into the wet dumpster for transfer via piping to the hazardous waste used solvent tank. Forklifts are used for loading containerized hazardous waste containers onto trucks for transport to Safety-Kleen/Clean Harbors TSDF's.

Safety-Kleen constructed the Sanford Branch with the intent that it will be a long-term facility for the distribution of Safety-Kleen products. No on-site disposal activity occurs at the facility and, hence no disposal capacity will be exhausted that will necessitate closure of the facility. Based on current business and facility conditions, the Sanford facility is expected to remain in operation at least until the year 2035.

PART I D.3 Process - Codes and Design Capacities

Waste Type	Process Design Capacity (Gallons)	Process Code(s)	Estimated Annual Amounts (Tons)	Waste Codes
Spent Parts Washer Solvent	20,000	S01* S02**	374	D001 and D-codes listed in note below
Branch-Generated Liquids Solids (Debris)	6,912	S01*	9	D001 and D-codes listed in note below; F002, F003, F005
Dumpster Sediment	6,912	S01*	Included above	D001 and D-codes listed in note below
Tank Bottoms	6,912	S01*	Included above	D001 and D-codes listed in note below
Used Immersion Cleaner (IC 699)	6,912	S01*	6	D-codes listed in note below
Dry Cleaning Waste (Perchloroethylene)	6,912	S01*	7	F002 and D-codes listed in note below
Dry Cleaning Waste (Non-perchloroethylene)	6,912	S01*	Included above	D-codes listed in note below
Paint Wastes	6,912	S01*	18	D001, F003, F005 and D-codes listed in note below
Retain Samples From Used Oil Operations	6,912	S01*	3	D008, D018, D039, D040
Spent Aerosol Cans	6,912	S01*	< 1	D001, D035
Fluid Recovery Service (FRS)	14,080	S01***	100	Transfer wastes-waste codes assigned by generator
Aqueous Brake Cleaner	14,080	S01***	14	Transfer waste-waste codes assigned by generator
Mercury-Containing Lamps/Devices	N/A	N/A***	Less than 2.2	N/A-handled as non- hazardous transfer wastes

NOTES:

D-Codes: D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043

- * This waste will be stored in containers in the container storage area. The maximum capacity in the container storage area for hazardous waste is 6,912 gallons.
- ** The spent parts washer solvent storage tank has a capacity of 20,000 gallons and may be filled up to 19,000 gallons.
- *** This waste will be held for transfer in containers in the transfer area and designated mercury bulb storage area.

Revis	ior	Number	0	
Date	11/	10/18		
Page	1	of 3		

APPLICATION FOR A HAZARDOUS WASTE FACILITY PERMIT CERTIFICATION TO BE COMPLETED BY ALL APPLICANTS

Signature and Certification

Facility Name Safety-Kleen Systems, Inc.			
	No. FLD 984 171 165		

The following certifications must be included with the submittal of an application for a hazardous waste authorization. The certifications must be signed by the owner of a sole proprietorship; or by a general partner of a partnership; or by a principal executive officer of at least the level of vice president of a corporation or business association, or by a duly authorized representative of that person. If the same person is a facility operator, facility owner, and real property owner, that person can cross out and initial the signature blocks under "1. Facility Operator" and "2. Facility Owner," and add the words "Facility Owner and Operator" at the line "Signature of the Land Owner or Authorized Representative."

1. Facility Operator

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, I agree to comply with the provisions of Chapter 403, Florida Statutes, and all rules of the Department of Environmental Protection. It is understood that the permit is only transferable in accordance with Chapter 62-730, Florida Administrative Code (F.A.C.), and, if granted a permit, the Department of Environmental Protection will be notified prior to the sale or legal transfer of the permitted facility.

	gned by Maggie Tena 3.11.08 10:20:04 -05'		
Signature of the Operator or Authoriz	ed Representativ	/e*	
Maggie Tenant, Vice President of E	nvironmental Co	mpliance	
Name and Title (Please type or print)			
Date11/08/2018	E-mail address	maggie.tenant@safety-kleen.com	
Telephone (<u>734</u>) <u>516-0291</u>			

Attach a letter of authorization

Revis	ion Nu	mb	er	0	
Date	11/10/18				
Page	2	of	3		

2. Facility Owner

This is to certify that I understand this application is submitted for the purpose of obtaining a permit to construct, operate, or conduct remedial activities at a hazardous waste management facility on the property as described. As owner of the facility, I understand fully that the facility operator and I are jointly responsible for compliance with the provisions of Chapter 403, Florida Statutes, and all rules of the Department of Environmental Protection.

Maggie Tenant	Digitally signed by Maggie Tena Date: 2018.11.08 10:20:27 -05	
Signature of the Facility Own	er or Authorized Representa	ative*
Maggie Tenant, Vice Preside	ent of Environmental Compli	ance
Name and Title (Please type	or print)	 3
Date11/8/2018	E-mail address	maggie.tenant@safety-kleen.com
Telephone ()_516-0291		
* Attach a latter of authorizati	on	

3. **Land Owner**

This is to certify that I, as land owner, understand that this application is submitted for the purpose of obtaining a permit for the construction, operation or postclosure of a hazardous waste management facility on the property as described. For hazardous waste facilities that close with waste in place, I further understand that I am responsible for providing the notice in the deed to the property required by 40 CFR 264.119 and 265.119, as adopted by reference in Chapter 62-730, F.A.C.

Maggie Tenant	Digitally signed by Maggie Ten Date: 2018.11.08 10:20:50 -05	
Signature of the Land Owne	r or Authorized Representat	tive*
	dent of Environmental Comp	oliance
Name and Title (Please type	e or print)	
Date	E-mail address	maggie.tenant@safety-kleen.com
Telephone (734) 526-0291		

Attach a letter of authorization

^{*} Attach a letter of authorization

SAFETY-KLEEN SYSTEMS, INC.

Consent Resolution of the Directors

June 18, 2014

The undersigned, being all of the Directors of Safety-Kleen Systems, Inc., a Wisconsin corporation (the "Company"), hereby consent to and adopt the following resolutions effective as of the above date.

Resolved:

That each individual with the title of President, Senior Vice President, Vice President, Director, Manager or Member of the Company, or any of its subsidiaries, shall have the power and authority to sign, certify, and deliver on behalf of the Company or any subsidiary, any necessary or desirable environmental documents, including, without limitation, any permit applications or amendments and any environmental reports in any way related to the operations of the Company or its subsidiaries. In addition to the foregoing, to the extent that the Company operates any facility with more than 250 people or having gross annual sales or expenditures in excess of the \$25,000,000, the General Manager of such facility shall have all of the foregoing authority with respect to the operations of any such facility.

Resolved:

That the President, and any Senior Vice President, Vice President or Secretary or Assistant Secretary of the Company may designate an employee of an affiliated company to sign and certify, on behalf of the Company or any subsidiary, any necessary or desirable environmental documents, including, without limitation, any permit applications, transportation related documents and environmental reports in any way related to the operations of the Company or one of its subsidiaries.

Resolved:

That the Secretary or any Assistant Secretary of the Company is hereby authorized on behalf of the Company to certify as to who are the officers of the Company and to the due authority of any officer or other person executing any of the foregoing documents or any other documents on behalf of the Company, and any governmental official or other third party shall be entitled to fully rely on any such certification.

WITNESS the execution hereof under seal as of the date first above written.

Eric Gerstenberg, D

James/M. Rutledge, Director

696369.2

Revisi	on N	umber		0	
Date	11	/10/18			
Page	3	of	3		

4. Professional Engineer Registered in Florida

Complete this certification when required to do so by Chapter 471, F.S., or when not exempted by Rule 62-730.220(7), F.A.C.

This is to certify that the engineering features of this hazardous waste management facility have been designed or examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly constructed, maintained and operated, or closed, will comply with all applicable statutes of the State of Florida and rules of the Department of Environmental Protection.

Safety-Kleen Systems, Inc. – Sanford Branch Renewal Application

RUZ	t		-
Signature			*
Robert W. Fo)X		
Name (please type)			
Florida Registration N	umber 40	980	
Mailing Address	10210 Highla	and Manor Drive street or P.0	e, Suite 140 O. Box
	Tampa	FL	33610
	city	state	zip
Date November 6,	2018 E-mail a	ddress bob.fox	@erm.com
Telephone (813) 3	357-3888		
(PLEASE AFFIX SEA	L)		
000		58.1	

Part II

A. General

1. SITE TOPPOGRAPHY AND SURROUNDING LAND USE

Figure 2.2-1 is a USGS topographic map showing the facility per 40 CFR Part 270.14(b)(19). Due to the small size of the site, all of the information requested in FDEP's application form cannot be placed on one map. Therefore, additional maps are provided here to present the additional information requested in the application form. Specific information requested in the permit application is provided below.

100-Year Floodplain Area

Based on information available from the Federal Emergency Management Agency (Figure 2.2-2), the central occupied portion of the property is outside of the 100-year flood zone. However, the north, west, and south perimeters along Lockhart Smith Canal are located in the 100-year flood zone (Zone X).

Surface Water Bodies Within One-Quarter Mile of the Facility Property Boundary (e.g., Intermittent Streams and Springs)

Surface water bodies located within one-quarter mile of the facility property boundary include Lockhart Smith Canal, which runs along the northern, western, and southern boundaries of the site, as shown in Figure 2.2-1.

Surrounding Land Uses

Surrounding land uses are shown in Figure 2.2-3.

Legal Boundaries of the Facility

Figure 2.2-4 shows the property boundaries

Drinking Water Wells Listed In Public Records or Otherwise Known to the Applicant Within One-Quarter Mile of the Facility Property Boundary

Information from FDEP's GIS application, Map Direct, is found on the Map Direct Area of Interest Report.

Intake and Discharge Structures Within One Mile

Information on intake and discharge structures within one mile of the facility is shown on the Map Direct Area of Interest Report.

Run-Off Control System

The facility's paved areas are sloped such that rainwater run-off is directed to the retention swales on the north and south sides of the property. Figure 2.2-5 illustrates the contours and anticipated surface water run-off direction. Overflow will discharge into the Smith Canal. Seepage from the swales percolates into the ground water and then into the same canal.

Access Control (fences, gates, etc.)

Figure 2.1-1 shows access control features.

Injection and Withdrawal Wells Both On Site and Off Site

Results of an inventory of wells within one mile of the site are presented on the Map Direct Area of Interest Report.

Buildings and Other Structures

Buildings and other structures are shown in Figure 2.1-1.

Contours Sufficient to Show Surface Water Flow

Figure 2.2-5 shows surface water flow direction at the facility. The site is nearly flat, with surface elevations in unpaved areas. Paved areas are at slightly higher elevations. Surface water flow is directed toward the drainage catchment basins shown in Figure 2.2-5.

Loading and Unloading Areas

Figure 2.1-2 shows loading and unloading areas in relation to the waste management areas.

Hazardous Waste Units

Figure 2.2-6 shows hazardous waste management units.

Wind Rose

A wind rose for Orlando, Florida is shown in Figure 2.2-7.

FACILITY LAYOUT AND TRAFFIC PATTERNS

The facility layout is shown in Figure 2.1-1. The non-building areas of the facility are paved with asphalt or concrete as noted on the site plan. The storm water retention areas and other unpaved areas are vegetated with grass. Site photographs are provided in Appendix A.

Site traffic patterns are illustrated in Figure 2.1-2. The majority of the vehicular traffic and loading/unloading operation occurs at and near the return/fill area (Area A), which is paved with asphalt and concrete.. Approximately once per week a tractor trailer delivers containerized product and removes containerized waste for transfer to a Safety-Kleen TSDF. This truck backs up to the concrete dock, located on the northwestern side of the facility in Area B, to load waste containers and unload product for the branch.

Area A & D are used for the loading/unloading of transfer wastes, and containerized permitted wastes from local vans and trucks. The trucks dispatched from the recycle center to deliver parts washer solvent and pick up used parts washer solvent will perform these activities at the Tanker Drive-Up Area (Area C) approximately once every 20 days. Truck-to-building transfer of Fluid Recovery Service (FRS) wastes will occur on concrete surfaces within the compound (Areas A, B, and D).

U.S. 46 is the major access road to the facility. The access road is designed in accordance with engineering criteria appropriate for sustaining the traffic volume and loading for the heavy industrial activities in this area. The vans that travel the routes daily between the service center and Safety-Kleen customers use the two-lane road within the industrial park (Central Park Drive). Traffic from this facility will have a minor impact on local traffic conditions.

FIGURE 2.1-1
SITE LAYOUT MAP
SAFETY-KLEEN SYSTEMS, INC.
SANFORD, FLORIDA

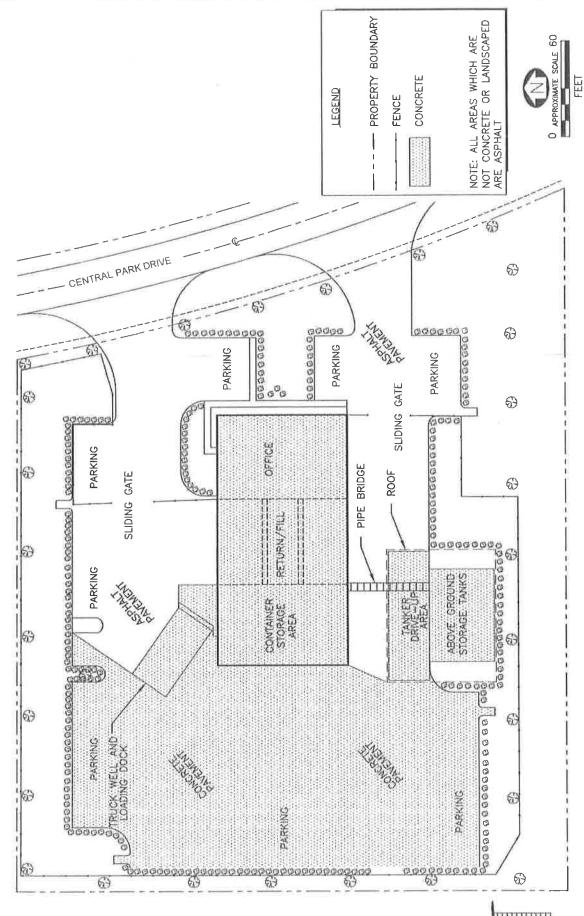




FIGURE 2.2-1 TOPOGRAPHIC MAP SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA

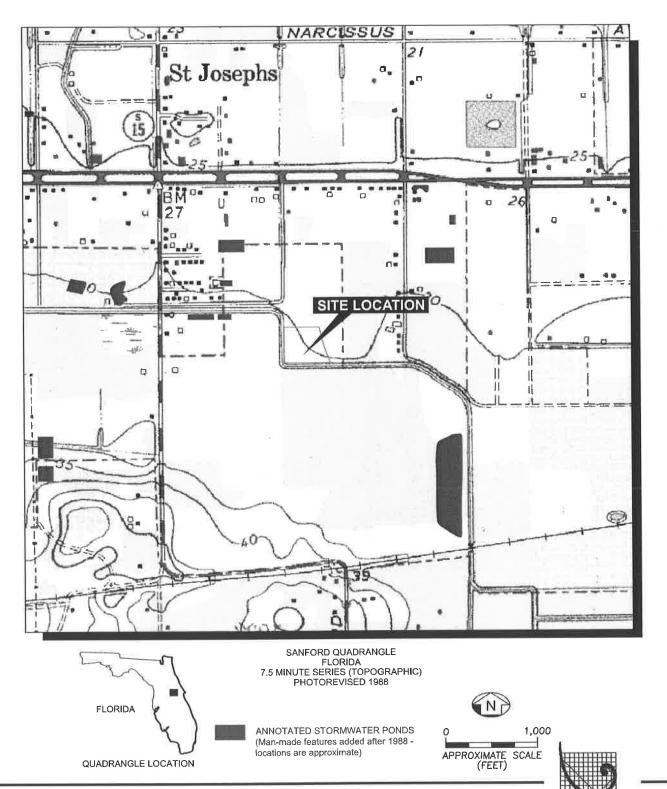
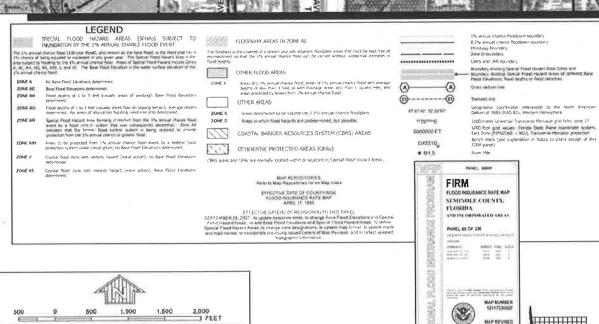


FIGURE 2.2-2 FLOODPLAIN MAP SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA

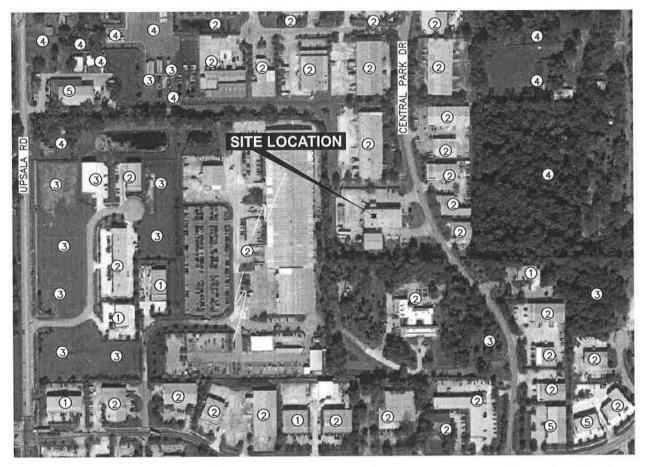






METERS

FIGURE 2.2-3 SURROUNDING LAND USE MAP SAFETY-KLEEN SYSTEMS, INC. FACILITY SANFORD, FLORIDA



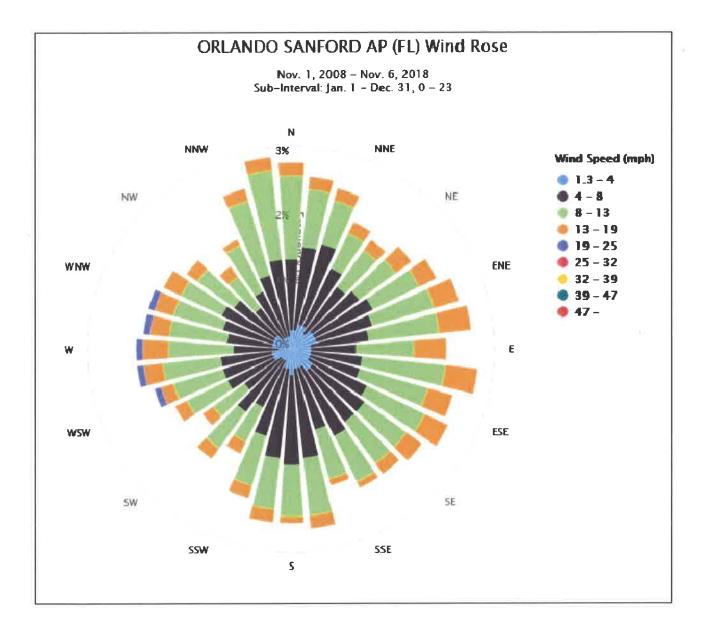
SOURCE: GOOGLE EARTH PRO AND SEMINOLE COUNTY PROPERTY APPRAISER.

1	OFFICE BUILDING
2	LIGHT INDUSTRIAL
3	INDUSTRIAL
4	RESIDENTIAL
5	WAREHOUSE





FIGURE 2.2-7 WIND ROSE SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA



Source: National Weather Service Weather Forecast Office

http://www.srh.noaa.gov/mlb/?n=windrose







Map Direct AIR (Area of Interest Report)
SKI Sanford Branch

Point of Interest:

28°48'23.3309" x -81°19'4.4089"

28.806480807132505 x -81.31789135830111

Search Radius: 1 mile

Report Created on Wed Nov 07 2018 at 12:30:12

Township/Range/Section: 19S30E28 Sanford, Seminole County 32771

FDEP Regulatory District: Central District Water Management District: SJRWMD FL House District 29:: FL Senate District 9

US Congressional District 7

HUC Basin Area: Upper St. Johns

Waterbody ID: 2962 State Land DM ID:





Search Result Summary

Features Found	Data Layer	Metadata	Spreadsheet
0	Wastewater Facility Regulation (WAFR) - Wastewater Facilities	<u>Layer</u> <u>Information</u>	-
0	Wastewater Facility Regulation (WAFR) - Wastewater Sites	Layer Information	
0	Underground Injection Control (UIC) Class V ASR Wells	Layer Information	<u> </u>
0	Underground Injection Control (UIC) Class V Non-ASR Wells	Layer Information	
0	Underground Injection Control (UIC) Class I Wells	<u>Layer</u> <u>Information</u>	
1	Ground Water Contamination Areas	<u>Layer</u> <u>Information</u>	Download as Spreadsheet

11/7/2018 Map Direct AIR

1		Layer Information	Download as Spreadsheet
116	Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal)	<u>Layer</u> <u>Information</u>	Download as Spreadsheet
1	Public Water Supply (PWS) Plants (Non-Federal)	and the same of	Download as Spreadsheet
5	Public Water Supply (PWS) Wells (Non-Federal)	J	Download as Spreadsheet

Search Result Details

Ground Water Contamination Areas: 1 Found

reas	1
ZONE ID	59993118
CONTAMINANT CODES	19,20,23,24,28
USGS QUADS	3911
COUNTY NAME	SEMINOLE
FLORIDA WMDS	SJRWMD
ARSENIC	0
BARIUM	0
CADMIUM	0
CHROMIUM	0
FLOURIDE	0
LEAD	0
MERCURY	0
NITRATE AS N	0
SELENIUM	0
SILVER	0
SODIUM	0
ENDRIN	0
LINDANE	0
METHOXYCHLOR	0
TOXAPHENE	0
D 2 4	0
SILVEX	0
TRIHALOMETHANES TOTAL	О
TRICHLORETHYLENE	1
TETRACHLOROETHYLENE	1
CARBON TERACHLORIDE	О
VINYL CHLORIDE	o
TRICHLOROETHANE 111	1
DICHLOROETHANE 12	1
BENZENE	О
ETHYLENE DIBROMIDE	0
DICHLOROBENZENE PARA	О
DICHLOROETHYLENE 11	1
TOLUENE	0
XYLENE TOTAL	0

ETHYLBENZENE	0	9 P W
PENTACHLOROPHENOL	0	
ALACHLOR	0	
BROMOCIL 2	0	
DICHLOROPROPANE 12	0	
DIBROMOCHLOROPROPANE	0	
SIMAZINE	0	
MTBE 3	0	
BENZO A PYRENE	0	
NITRITES NITRATES TOTAL	0	
CIS 1 2 DICHLOROETHYLENE	0	
DICHLOROMETHANE	0	
SHAPE.AREA	368881.037109	
SHAPE.LEN	2164.601934	
OBJECTID	363	

Private Wells from Generalized Well Information System (GWIS): 1 Found.

1 of 1 from Private	
Generalized Well In	formation System
GWIS)	
PK STATION	6179
STATION NAME	284852081184401
LATITUDE DEGREES	28
LATITUDE MINUTES	48
LATITUDE SECONDS	52
LONGITUDE DEGREES	81
LONGITUDE MINUTES	18
LONGITUDE SECONDS	44
WELL TYPE	PRIVATE DRINKING WATER WELL
LAND SURFACE ELEVATION	
WELL MEASURING PT ELEVATION	
AGENCY MAINTAINING STATION INF	ST. JOHNS RIVER WMD
LOCATION METHOD	ММАР
WELL DRILL DATE	11/15/1986
WELL TOTAL DEPTH	160
WELL CASING DEPTH	143
WELL CASING MATERIAL	GALVANIZED IRON OR GALVANIZED STEEL
WELL CASING DIAMETER	2
WATERBODY NAME	FLORIDAN AQUIFER SYSTEM
SUBAQUIFER	
SAMPLED HRSPWS WELL	N
STORET IDENTIFIER	284852081184401
WELL WATER LEVEL RECORDER	
OBJECTID	6179

Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal): 6 Found.

Protection Program (SWAPP) Ground

#1 of 6 from Source Water Assessment and #2 of 6 from Source Water Assessment and Protection Program (SWAPP) Ground

Water Areas (Non Federal)

	(2.10-	
PWS ID	3590205	
WELL ID	7592	
AQUIFER	Floridan Aquifer	
OBJECTID	5579	
SHAPE.AREA	292080.695889	
SHAPE.LEN	1915.849779	

Water Areas (Non Federal)

PWS ID	3590205	
WELL ID	7591	
AQUIFER	Floridan Aquifer	
OBJECTID	5578	
SHAPE.AREA	292080.632495	
SHAPE.LEN	1915.849571	

Protection Program (SWAPP) Ground Water Areas (Non Federal)

water Areas (Non Fed		
PWS ID	3590205	
WELL ID	7593	
AQUIFER	Floridan Aquifer	
OBJECTID	5580	
SHAPE.AREA	292080.660781	
SHAPE.LEN	1915.849662	

#3 of 6 from Source Water Assessment and #4 of 6 from Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal)

PWS ID	3590205
WELL ID	7590
AQUIFER	Floridan Aquifer
OBJECTID	5577
SHAPE.AREA	292080.734186
SHAPE.LEN	1915.849906

Protection Program (SWAPP) Ground Water Areas (Non Federal)

as (Non Fed	
3594231	
26715	
Floridan Aquifer	
3718	
72901.831981	
957.348213	

#5 of 6 from Source Water Assessment and #6 of 6 from Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal)

PWS ID	3590205
WELL ID	7594
AQUIFER	Floridan Aquifer
OBJECTID	5581
SHAPE.AREA	292080.655152
SHAPE.LEN	1915.849647

Public Water Supply (PWS) Plants (Non-Federal): 1 Found.

#1 of 1 from Public Water Supply (PWS)

PWS OC1 OFFICE ID	CD
PWS STATUS	ACTIVE
PWS NAME	PLATINUM GYM
PWS CITY	SANFORD
PWS TYPE CODE	N
PWS TYPE	NONCOMMUNITY
PWS POP SERVED	25
PWS SUBPART H	N
PWS LAST SAN SURVEY	02/14/2017
PWS LAST 01 INSP	09/14/2011
PWS INSPECTOR INITS	CR
PWS PRIMARY SERVICE AREA	RECREATION AREA
PWS OPERATOR	
PLANT ID	1
PLANT NAME	PLATINUM GYM
PLANT STATUS	ACTIVE
PLANT FOUR LOG REMOVAL	N
PLANT COORDINATE DATE	12/15/2006
PLANT DESIGN CAPACITY	14400
PLANT HEIGHT ABOVE ELLIPSOID	
OBJECTID	22813
GIS PLANT ID	22813

PWS ID	3594231
PLANT LAT DD	28
PLANT LAT MM	48
PLANT LAT SS	44.11
PLANT LONG DD	81
PLANT LONG MM	19
PLANT LONG SS	19.91
PLANT COORDINATE METHOD	DPHO
PLANT DATUM	83

Public Water Supply (PWS) Wells (Non-Federal): 5 Found.

Vells (Non-Feder	ic Water Supply (PWS) ral)	#2 of 5 from Public Wa Wells (Non-Federal)	117(-
PWS STATUS	ACTIVE	PWS STATUS	ACTIVE
PWS NAME	SANFORD, CITY OF (2 WPS)	PWS NAME	PLATINUM GYM
PWS ADDRESS	3701 COUNTRY CLUB RD & 3100	PWS ADDRESS	4050 W SR 46
F W3 ADDICE33	ORLANDO DR	PWS CITY	SANFORD
PWS CITY	SANFORD	PWS ZIP5	32771
PWS ZIP5	32772	PWS TYPE CODE	N
PWS TYPE CODE	C	PWS TYPE	NONCOMMUNITY
PWS TYPE	COMMUNITY	PWS SUBPART H	N
PWS SUBPART H	N	PWS OPERATOR	
PWS OPERATOR	KEN MILLER	PWS POP SERVED	25
PWS POP SERVED	65216	PWS LAST SAN SURVEY	02/14/2017
PWS LAST SAN SURVEY	09/20/2016	PWS DESIGN CAPACITY	14400
PWS DESIGN CAPACITY	14688000	PWS PRIMARY SERVICE AREA	RECREATION AREA
PWS PRIMARY SERVICE	MUNICIPAL/CITY	PWS INSPECTOR INITS	CR
AREA		WELL NAME	PLATINUM GYM
PWS INSPECTOR INITS	RFP	FLUWID	AAF0828
WELL NAME	WELL #2 (OREGON)	WELL STATUS	ACTIVE
FLUWID	AAC0030	WELL HEIGHT ABOVE ELIPSOID	
WELL STATUS	ACTIVE	WELL COORDINATE DATE	12/15/2006
WELL HEIGHT ABOVE ELIPSOID	0.032	WELL PLANT ID	1
		WELL YEAR DRILLED	
WELL COORDINATE DATE	01/08/2003	WELL DEPTH DRILLED	1
WELL PLANT ID	1	WELL AVAILABILITY USAGE	PERMANENT
WELL YEAR DRILLED	1985	OBJECTID	26715
WELL DEPTH DRILLED	607	GIS WELL ID	26715
WELL AVAILABILITY	DEDAMANIENT	PWS ID	3594231
USAGE	PERMANENT	PWS PRIMARY PHONE	4073301203
OBJECTID	7590	WELL LAT DD	28
GIS WELL ID	7590	WELL LAT MM	48
PWS ID	3590205		44.11
PWS PRIMARY PHONE	4076885119	WELL LAT SS	
WELL LAT DD	28	WELL LONG DD	81
WELL LAT MM	47	WELL LONG MM	19
WELL LAT SS	41.2495	WELL LONG SS	19.91
WELL LONG DD	81	WELL METHOD	DPHO
WELL LONG MM	19	WELL DATUM	83
WELL LONG SS	34.999	WELLID	1
WELL METHOD	DPHO	PWS CNP COUNTY ID	59
WELL DATUM	84	PWS OC1 OFFICE ID	CD
WELL ID	8	LOCATIONS PWS LOCATION ID	80139

/2018			Map I	Direct AIR
PWS CNP COUNTY ID	59	IIII	WELL UNDER DIRECT INF	LUENCE
PWS OC1 OFFICE ID	CD	111		1
LOCATIONS PWS LOCATION ID	66708			
WELL UNDER DIRECT INFLUENCE	N			
3 of 5 from Publ	ic Water Supply (PWS)		#4 of 5 from Publ	ic Water Supply (PWS)
Wells (Non-Feder			Wells (Non-Feder	al)
PWS STATUS	ACTIVE	111	PWS STATUS	ACTIVE
PWS NAME	SANFORD, CITY OF (2 WPS)	illi	PWS NAME	SANFORD, CITY OF (2 WPS)
PWS ADDRESS	3701 COUNTRY CLUB RD & 3100 ORLANDO DR		PWS ADDRESS	3701 COUNTRY CLUB RD & 3100 ORLANDO DR
PWS CITY	SANFORD		PWS CITY	SANFORD
PWS ZIP5	32772		PWS ZIP5	32772
PWS TYPE CODE	c	illi	PWS TYPE CODE	С
PWS TYPE	COMMUNITY	1	PWS TYPE	COMMUNITY
PWS SUBPART H	N	illi	PWS SUBPART H	N
PWS OPERATOR	KEN MILLER		PWS OPERATOR	KEN MILLER
PWS POP SERVED	65216	ill	PWS POP SERVED	65216
PWS LAST SAN SURVEY	09/20/2016	╢	PWS LAST SAN SURVEY	09/20/2016
PWS DESIGN CAPACITY	14688000	111	PWS DESIGN CAPACITY	14688000
PWS PRIMARY SERVICE	14080000	╢	PWS PRIMARY SERVICE	
AREA	MUNICIPAL/CITY		AREA	MUNICIPAL/CITY
PWS INSPECTOR INITS	RFP	╢	PWS INSPECTOR INITS	RFP
WELL NAME	WELL #4 (OREGON)	1	WELL NAME	WELL #3 (OREGON)
FLUWID	AAC0029	ill	FLUWID	AAC0027
WELL STATUS	ACTIVE	illi	WELL STATUS	ACTIVE
WELL HEIGHT ABOVE ELIPSOID	0.032		WELL HEIGHT ABOVE ELIPSOID	0.032
WELL COORDINATE DATE	01/08/2003		WELL COORDINATE DATE	01/08/2003
WELL PLANT ID	1		WELL PLANT ID	1
WELL YEAR DRILLED	1985		WELL YEAR DRILLED	1985
WELL DEPTH DRILLED	650	1	WELL DEPTH DRILLED	578
WELL AVAILABILITY USAGE	PERMANENT		WELL AVAILABILITY USAGE	PERMANENT
OBJECTID	7592		OBJECTID	7591
GIS WELL ID	7592	j	GIS WELL ID	7591
PWS ID	3590205	1	PWS ID	3590205
PWS PRIMARY PHONE	4076885119	ا	PWS PRIMARY PHONE	4076885119
WELL LAT DD	28	i	WELL LAT DD	28
WELL LAT MM	47	ا	WELL LAT MM	47
WELL LAT SS	43.692	Ĩ	WELL LAT SS	43.7904
WELL LONG DD	81	1	WELL LONG DD	81
WELL LONG MM	19	ᆌ	WELL LONG MM	19
WELL LONG SS	38.6247	il	WELL LONG SS	43.0157
WELL METHOD	рно		WELL METHOD	DPHO
WELL DATUM	84	ᆌ	WELL DATUM	84
WELL ID	10	1	WELL ID	9
PWS CNP COUNTY ID	59	4	PWS CNP COUNTY ID]59
	CD	╢	PWS OC1 OFFICE ID	ICD
LOCATIONS PWS LOCATION ID	66710		LOCATIONS PWS	66709
Marian and a second a second and a second and a second and a second and a second an		-	WELL UNDER DIRECT	
WELL UNDER DIRECT	N		INFLUENCE	N

PWS STATUS	ACTIVE
PWS NAME	SANFORD, CITY OF (2 WPS)
PWS ADDRESS	3701 COUNTRY CLUB RD & 3100 ORLANDO DR
PWS CITY	SANFORD
PWS ZIP5	32772
PWS TYPE CODE	c
PWS TYPE	COMMUNITY
PWS SUBPART H	N
PWS OPERATOR	KEN MILLER
PWS POP SERVED	65216
PWS LAST SAN SURVEY	09/20/2016
PWS DESIGN CAPACITY	14688000
PWS PRIMARY SERVICE AREA	MUNICIPAL/CITY
PWS INSPECTOR INITS	RFP
WELL NAME	WELL #5 (OREGON)
FLUWID	AAC0028
WELL STATUS	ACTIVE
WELL HEIGHT ABOVE ELIPSOID	0.032
WELL COORDINATE DATE	01/08/2003
WELL PLANT ID	1
WELL YEAR DRILLED	1985
WELL DEPTH DRILLED	575
WELL AVAILABILITY USAGE	PERMANENT
OBJECTID	7593
GIS WELL ID	7593
PWS ID	3590205
PWS PRIMARY PHONE	4076885119
WELL LAT DD	28
WELL LAT MM	47
WELL LAT SS	47.4045
WELL LONG DD	81
WELL LONG MM	19
WELL LONG SS	41.4336
WELL METHOD	DPHO
WELL DATUM	84
WELL ID	11
PWS CNP COUNTY ID	59
PWS OC1 OFFICE ID	CD
LOCATIONS PWS LOCATION ID	66711

No Results Found:

Underground Injection Control (UIC) Class I Wells
Underground Injection Control (UIC) Class V ASR Wells
Underground Injection Control (UIC) Class V Non-ASR Wells

11/7/2018 Map Direct AIR

Wastewater Facility Regulation (WAFR) - Wastewater Facilities Wastewater Facility Regulation (WAFR) - Wastewater Sites

^{***} END OF REPORT ***

97.1585 Day SHAZINYS 204 18 64 Bung td settieth or radiging at Acy, and **Азил**, эскину ro mred my andronal MY ALLESS Elig rossilety and intrins VF 20h1 Tricoln Avo And a latence fally in the latence EPH HORNER H SKI Sanford Branch Grewn Cos N White Cedar No New Upsala Wernall Dr Lake Monroe Pettins 181 0 DELFORM N 0 SALITE . Wei Theper Woodruff Springs Vata Cab omfath.

1:18,056

PDEP, DEAR, WMS, Sources: Exi, HERE, Gamm, Internan, Internan, Internant P Corp., GEBCO, USCS, FAO, NPS, NRCAM, GaeBase, (RN, Addister ML, Ordinance Survey, Exi, Japan, METI, Esti China (Hong, Knd), swiston, & Openitreelikap contributions, and the Gals User Community, FDEP-WRM, WRM Map created by Map Direct, powered by ESRI. disclosed, or represents that its use would not infringe privately owned rights. Non-Surface Water Discharge 5 HRS Private Wells from WMS Florida Department of Environmental Protection makes no warranty, expressed or implied or assumes any legal liability or responsibility for the accuracy

1.2 km

9.0 0.35

0.7 mi

0.17 0.3

070

Wastewater Sites from WAFR IMS

0

Ground Water Contamination Areas

Wastewater Facilities from WAFR IMS

NPDES Surface Water Discharge

.

UIC Class V Non-ASR Wells

đ

Source Water Assessment and Protection Program (SWAPP) Areas

Public Water Supply (PWS) Plants (Non-Federal)

죕

0

Public Water Supply (PWS) Wells (Non-Federal)

November 7, 2018

0

UIC Class I Wells

Part II

- A. General
- 2. FINANCIAL ASSURANCE FOR CLOSURE

Safety-Kleen is the operator of the Sanford, Florida Branch. Financial assurance is provided through the use of the financial test specified in Subpart H of 40 CFR Part 264.143. Per 40 CFR Part 264.142 closure cost estimates are provided here.

	Matter .	Cafegory	Hourly Rate or Unit Charge	Hours or Unit Enlimate	Subtela Cos
tt-	VENTORY REMOVAL	Opini Sm.)	- Anna Principal	10-11/11/11	
A	us Leagui (Alia		Caj	racity (gallons)	
- 1	Afunctor mimeral spirits tank(s) is full -Tank One			20000	
	-Tank Two (IF APPLICABLE)			0	
		Total Tank Capacity		20000	
-1	RéturiFFA station in 1/4 - Hanlmurn capacity of drum wastlers added to waste mineral spirits fank quantity			216	
. (Container storage area(s) full				
	-CSA 1 -CSA 2 (IF APPLICABLE)			6912 0	
	ANY THE SECOND STATES	Total CSA Capacity		6912	
	Subcontractor Costs				
	- Temestor tarik contents to tunkars			20216	
	Tank Cepacity (total gaftons) Work Rate to Unioad Tank Capacity (hours per gallon)			0.0003	
	Total Hours to Unload	i.abor/equipment	\$175 95	61	\$1,06
	Labor and equipment rate to unload (PPE Level D) and cost	(.euorrequipment	417000		0.100
	- Transport waste miceral ejotife to a TSD for trealment/disposal Number of Lanker Italiers required (6,000 gallons max each load) Cost per mile = \$5.64mile			4	
	Out per tribe =0.004miles (Number in second column is 500 miles k number trucks) Disposaltireatment cost (per gellon - low cost based on sultability (or fuel)	Transport = 500 miles each TSD @\$0.45/gallon	\$5.64 \$0.450	2000 20218	\$11,28 \$9,09
	- Transfer drums from CSA(s) to brucks				
	Lebor/Equipment (PPE Lovel D) (Number in second column is number of drums determined from total CSA capacity)	Labor/equipment per drum	\$3 57	126	\$45
	- Transport drume to TSD for Treatment/Disposal			400	
	Total Number of Drums (Number is total of CSA drums and Flam Shed drums) Total Number of Trucks Required to Transport Drums (64 per truck max)			126	
	Cost per mite =\$5.64/mite	T	\$5.64	1000	\$5,6
	Mileage = 500 miles (Number in second column is 500 miles x number of frucks) Disposably eatment cost (per drum - low cost based on suitability for fuel)	Transport trailer(t) x 500 miles TSO @ \$90/drum	\$90	63	\$5,6
	Disposulticalment cost (per drum - not suitable for fuel) Activity 1, Suitable	TSD @ \$179/dium	\$179	63	\$11.2 \$44.4
	eumotises. The tanks, paping and appurtanant equament are decontaminated and remain in place				
- 6	and a final straw a feet or a final straw and the straw of the straw o				
-1	nctivides decontamisation; of the containment area. Assumes containment area to remain in place following decontamination. Assumes I threate sample required to leave containment in place. Assumes 2 sell samples required from benesth containment area. Actual number of samples will be based on eng fank Intelior Source Footsee Desard on Latik volume).	fitee r's Inspection.	9	quare Foolage	
-1	Assumes containment area to remain in place: following decontamination Assumes 1 dissate semple required to leave containment in place Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on eng fank intelior Square Footage (based on taint volume) • Tank 1	ineet's inspection.	9	1206	
-1	Assumes containment area to remain in place following decontamination Assumes I threate sample required to leave containment in place Assumes 2 soil samples required from beneath containment erea. Actual number of samples will be based on eng Fank Interior Square Footage (based on tank volume)	rineer's Inspection. Total Tank Interior Square Footage	9		
-//	Assumes containment area to remain in place; following decontamination Assumes 1 dissate semple required to leave containment in place Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on taint volume) • Tank 1		3	1206	
-//	Assumes conteliment area to remain in place following decontamination Assumes 1 thisate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank intelior Square Footage (based on taink volume) Tank 12 Tank 2 (IF APPLICABLE)		9	1206 0 1206	
-//	Assumes contelinment area to remain in place following decontamination Assumes 1 rinsate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on larisk volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank Farm Containment Square Footage (includes floor and walts) Printe Contractor Costs Costs for oversight and engineers imputation included in Closure Certification Activity below		9	1206 0 1206	
-//	Assumes conteinment area to remain in place following decontamination Assumes 1 threate earniple required to leave containment in place Assumes 2 cell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on taink volume) Tank 1 - Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 5 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 7 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 7 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 1 (IF APPLICABLE)		3	1206 0 1206 2908	
-//	Assumes contelinment area to remain in place following decontamination Assumes 1 rissate sample required to leave containment in place Assumes 2 sell samples required from beneath containment in place Sesumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng lank interior Square Footage (based on latifix volume) - Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tenk Farm Containment Square Footage (includes floor and walts) - Prime Contractor Costs - Costs for oversight and engineers imputition included in Closure Certification Activity below - Collect Rinsale Sample(e) (1 per Lank and 1 per containment) Work Rate for Sample(e) use per sample) Number of Samples	Total Tank Interior Square Poolege	\$91.88	1206 0 1206 2908	\$
-//	Assumes conteinment area to remain in place following decontamination Assumes 1 threate sample required to leave containment in place Assumes 2 cell samples required from beneath containment area. Actual number of samples will be based on eng fank intelior Square Footage (based on taink volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 5 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 7 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 9 (IF APPLICABLE) Tank 1 (IF APPLICABLE) Tank 9 (IF AP			1206 0 1206 2908	\$
-/ -/ HT	Assumes containment area to remain in place following decontamination Assumes a trissate sample required from bereve containment in place Assumes 2 all samples required from bereath containment area. Actual number of samples will be based on eng lank interior Square Footage (based on taink volume) Tank 2 (IF APPLICABLE) Fank 2 (IF APPLICABLE) Fank Farm Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers imputition included in Closure Certification Activity below Costect Rhasale Sample(e) (1 per tank and 1 per containment) Work Rate for Sampleing (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) - Drilling for Soit Samples (2.5 in boring to 1 ft each)	Total Tank Interior Square Poolege		1206 0 1206 2908	\$
-////	Assumes conteinment area to remain in place following decontamination Assumes 1 trisade sample required to leave containment in place saumes 2 sell samples required from beneath containment in place saumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng lank interior Square Footage (based on latik volume) Tank 2 (IF APPLICABLE) fank Ferm Containment Square Footage (includes floor and walls) Pritrie Contractor Costs -Costs for oversight and engineers imputition included in Closure Certification Activity below - Collect Rinsale Sample(e) (1 per Lank and 1 per containment) Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) Work Rate for Orilling thours per fort) Number of Fert (utubality cample depth = 1 foot each)	Total Tank Interior Square Poolage Labol/squipment	\$91,88	1206 0 1206 2908 0.5000 1 0.50	
- / - / HT	Assumes conteinment area to remain in place following decontamination Assumes 1 threate sample required to leave containment in place Assumes 2 cell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank 5 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 7 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 9 (IF APP	Total Tank Interior Square Poolege		1206 0 1206 2908 0 5000 1 0.50	
-/ -/ HT	Assumes containment area to remain in place following decontamination Assumes 1 this ats sample required to leave containment in place searmed 2 call samples required from beneath containment in place searmed 2 call samples required from beneath containment area. Actual number of samples will be based on eng lank interior Square Footage (based on tarist volume) - Tank 2 (IF APPLICABLE) fank Farm Containment Square Footage (includes floor and walts) - Prime Contractor Costs - Costs for oversight and engineers imputition included in Closure Certification Activity below - Collect Rinsals Sample(e) (1 per lank and 1 per containment) - Work Rate for Sampling (hours per sample) Number of Samples - Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) - Work Rate for Orilling (hours per lout) Number of Feet (tubisities sample depth 1 foot each) - Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples	Total Tank Interior Square Poolage Labol/squipment	\$91,88	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.81	
-/ -/ HT	Assumes conteinment area to remain in place following decontamination Assumes 1 threate earniple required to leave containment in place Assumes 2 cell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 4 (IF APPLICABLE) Tank 5 (IF APPLICABLE) Tank 6 (IF APPLICABLE) Tank 7 (IF APPLICABLE) Tank 8 (IF APPLICABLE) Tank 9 (IF A	Total Tank Interior Square Poolage Labol/squipment	\$91,88	1206 0 1206 2908 0.5000 1 0.50	
- / - / HT	Assumes containment area to remain in place following decontamination Assumes 1 this ats sample required to leave containment in place searmed 2 call samples required from beneath containment in place searmed 2 call samples required from beneath containment area. Actual number of samples will be based on eng lank interior Square Footage (based on tarist volume) - Tank 2 (IF APPLICABLE) fank Farm Containment Square Footage (includes floor and walts) - Prime Contractor Costs - Costs for oversight and engineers imputition included in Closure Certification Activity below - Collect Rinsals Sample(e) (1 per lank and 1 per containment) - Work Rate for Sampling (hours per sample) Number of Samples - Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) - Work Rate for Orilling (hours per lout) Number of Feet (tubisities sample depth 1 foot each) - Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples	Total Tank Interior Square Poolage Labol/squipment	\$91,88	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.61	4
-////	Assumes contelinment area to remain in place following decontamination Assumes 1 rinsate sample required to leave containment in place saumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng tank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) fank Ferm Containment Square Footage (includes floor end walls) Pritrue Contractor Costs Costs for oversight and engineers imputation included in Closure Certification Activity below Collect Rinsate Sample(e) (1 per tank and 1 per containment) Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) Diffing for 50tl Samples (2.5 in boring to 1 ft each) Work Rate for Onlining (hours per fort) Number of Feet (substitut sample depth = 1 foot each) Labor and equipment per work hour (PPE Level D) Collect 2 Soll Samples Work Rate for Sampling (hours per sample) Number of Feet (substitut sample depth = 1 foot each) Labor and equipment per work hour (PPE Level D)	Total Tank Interior Square Poolage Labol/squipment Labor/squipment	\$91,88 \$146.29	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61	4
-/ -/ HT	Assumes Conteinment area to remain in place following decontamination Assumes 1 threate sample required to leave containment in place Assumes 2 cell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 3 - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Dinling for so oversight and engineers imputation included in Closure Certification Activity below - Dinling for so oversight and engineers imputation included in Closure Certification Activity below - Dinling for so oversight and engineers imputation included in Closure Certification Activity below - Decontainties to samples - Decontaminate waste AST, plping and appurtenent equipment	Total Tank Interior Square Poolage Labol/squipment Labor/squipment	\$91,88 \$146.29	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61	4
-/ -/ HT	Assumes contelinment area to remain in place following decontamination Assumes 1 rissate sample required to leave containment in place sammes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng tank interior Square Footage (based on tarisk volume) Tank 2 (IF APPLICABLE) fank Farm Containment Square Footage (includes floor and walls) Prime Containment Square Footage - Costs for oversight and engineers impetition included in Closure Certification Activity below - Collect Rinsals Sample(s) (1 per Lank and 1 per containment) Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) - Collect 2 Soil Samples Work Rate for Sampling (hours per sample) Number of Samples Work Rate for Sampling (hours per sample) Number of Samples Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs:	Total Tank Interior Square Poolage Labol/squipment Labor/squipment	\$91.88 \$146.29 \$91.88	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.61 0.5000 2 1.00	4
-////	Assumes contelinment area to remain in place following decontamination Assumes 1 trisate sample required to leave containment in place sammes 2 soil samples required from beneath containment area. Actual number of samples will be based on eng tank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank Ferm Containment Square Footage (includes floor and walls) Prime Containment Square Footage Costs for oversight and engineers impection included in Closure Certification Activity below - Collect Rinsate Sample(a) (1 per Lank and 1 per containment) Work Rate for Sampling (hours per sample) Number of Samples (2.5 in boring to 1 ft each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soil Samples Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs - Decontainties waste AST, piping and appurtenant equipment Work Rate to Prieseure Wash (hours per square foot)	Total Tank Interior Square Poolage Labol/squipment Labor/squipment	\$91,88 \$146.29	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00	\$
-////	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 3 - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Dimiling for oversight and engineers imputation included in Closure Certification Activity below - Dimiling for soil samples Work Rate for Ording flowers per fort) Number of Feet (subsists sample epith = 1 foot each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soil Samples Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) - Subcontainties Costs - Decontaminate waste AST, plaing and appurtenant equipment Work Rate to Pressure Wash (hours per square (oot) Area of Tanks to be decontaintiated Labor and equipment for tank doon (PPE Level C) - Decontaminate Tank Containment Avea	Total Tank Interior Square Footage Labor/squipment Labor/squipment Labor/squipment	\$91.88 \$146.29 \$91.88	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.61 0.5000 2 1.00	\$
- / - / HT	Assumes 1 thisate sample required to leave containment in place Assumes 1 thisate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 2 (IF APPLICABLE) Tank Ferm Containment Square Footage (includes floor and walts) Prime Containment Square Footage (includes floor and to sure Containment) Work Rate for Samples (2.5 in boring to 1 th each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soil Samples Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs - Decontainmete waste AST, piping and appurtenant equipment Work Rate to Pressure Wash (hours per square foot) Area of Tanks to be decontainment area Work Rate to Pressure Wash (hours per square foot) - Decontainment Tank Containment Area Work Rate to Pressure Wash 1 eq fl (hours per square foot)	Total Tank Interior Square Footage Labor/squipment Labor/squipment Labor/squipment	\$91.88 \$146.29 \$91.88	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.61 0.5000 2 1.00	\$
- / - / HT	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 3 - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Costs for oversight and engineers imputation included in Closure Certification Activity below - Dimiling for oversight and engineers imputation included in Closure Certification Activity below - Dimiling for soil samples Work Rate for Ording flowers per fort) Number of Feet (subsists sample epith = 1 foot each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soil Samples Work Rate for Sampling (hours per sample) Number of Samples Labor and equipment per work hour (PPE Level D) - Subcontainties Costs - Decontaminate waste AST, plaing and appurtenant equipment Work Rate to Pressure Wash (hours per square (oot) Area of Tanks to be decontaintiated Labor and equipment for tank doon (PPE Level C) - Decontaminate Tank Containment Avea	Total Tank Interior Square Footage Labor/squipment Labor/squipment Labor/squipment	\$91.88 \$146.29 \$91.88	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00	\$ \$4.3
-/ -/ HT	Assumes 1 threate earnije required to leave containment in place Assumes 1 threate earnije required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on taink volume) 1 Tank 2 (IF APPLICABLE) Tank 3 Tank 2 (IF APPLICABLE) Tank 4 Tank 2 (IF APPLICABLE) Tank 5 Tank 5 Tank 5 Tank 5 Tank 5 Tank 6 Tank 6 Tank 6 Tank 7 Tank 7 Tank 7 Tank 7 Tank 7 Tank 7 Tank 8 Tank 7 Tank 8 Ta	Total Tank Interior Square Footage Labor/squipment Labor/equipment Labor/equipment	\$91.88 \$146.29 \$91.88 \$97.23	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61 0.5000 2 1.00 0.0405 1206 49	\$ \$4.3
-/ -/ HT	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required to leave containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on taink volume) 1 Tank 2 (IF APPLICABLE) T	Total Tank Interior Square Footage Labot/equipment Labot/equipment Labot/equipment Labot/equipment VOCs @ \$188/sample	\$91.88 \$146.29 \$91.88 \$97.23	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61 0.5000 2 1.00 0.0405 1206 49	\$ \$4.3
-////	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) 1 Tank 2 (IF APPLICABLE) Fank Farm Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers imprection included in Closure Certification Activity below - Cotlect Rinsate Sample(s) (1 per lank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) Work Rate for Ordilling (hours per fort) Number of Feet (utibalist sample depth = 1 foot each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Subcontraintor Costs - Decontaminate waste AST, plaing and appurtenant equipment Work Rate to Pressure Wash flours per square foot) Area of Tanks to be decontaminated Labor and equipment for tank decon (PPE Level C) - Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment (includes wals and floor) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$359/sample	\$91.88 \$146.29 \$91.88 \$97.23	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61 0.5000 2 1.00 0.0405 1206 49	\$ \$4.7
- / - / HT	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) 1 Tank 2 (IF APPLICABLE) Fank Farm Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers imprection included in Closure Certification Activity below - Cotlect Rinsate Sample(s) (1 per lank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) Work Rate for Ordilling (hours per fort) Number of Feet (utibalist sample depth = 1 foot each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Subcontraintor Costs - Decontaminate waste AST, plaing and appurtenant equipment Work Rate to Pressure Wash flours per square foot) Area of Tanks to be decontaminated Labor and equipment for tank decon (PPE Level C) - Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment (includes wals and floor) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$359/sample SVOCs @ \$179/sample	\$91.88 \$146.29 \$91.88 \$97.23	1206 0 1206 2908 0 5000 1 0.50 0 3050 2 0.61 0.5000 2 1.00 0.0405 1206 49	\$ \$4.7 \$0,6
-////	Assumes 1 thisate sample required to leave containment in place Assumes 1 thisate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 1 Tank 2 (IF APPLICABLE) Tank Ferrin Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers impetition included in Closure Certification Activity below Cotiect Rinsate Sample(s) (1 per tank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) Drilling for Soil Samples (2.5 in boring to 1 ft each) Work Rate for Orilling (hours per fort) Number of Feet (substitut sample depth + 1 foot each) Labor and equipment per work hour (PPE Level D) Collect 2 Soil Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs Decontaminate fasts to be decontainmented Labor and equipment for lank decon (PPE Level C) Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 eq ft (hotins per square foot) Total Area of Containment (includes walts and floor) Lebor and equipment for task decon (PPE Level D) Labor and equipment for fasts decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$159/sample SVOCs @ \$169/sample Total per sample oost	\$91.88 \$146.29 \$91.85 \$97.23	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00 0.0405 1206 49 0.0405 3591 145	\$ \$4.7 \$0,6
-/ -/ HT	Assumes 1 threate sample required to leave containment in place Assumes 1 threate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) 1 Tank 2 (IF APPLICABLE) Fank Farm Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers imprection included in Closure Certification Activity below - Cotlect Rinsate Sample(s) (1 per lank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) - Drilling for Soll Samples (2.5 in boring to 1 ft each) Work Rate for Ordilling (hours per fort) Number of Feet (utibalist sample depth = 1 foot each) Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Collect 2 Soll Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) - Subcontraintor Costs - Decontaminate waste AST, plaing and appurtenant equipment Work Rate to Pressure Wash flours per square foot) Area of Tanks to be decontaminated Labor and equipment for tank decon (PPE Level C) - Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment Area Work Rate to Pressure Wash 1 sq ft (hours per square foot) Total Area of Containment (includes wals and floor) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$359/sample SVOCs @ \$179/sample	\$91.88 \$146.29 \$91.85 \$97.23	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00 0.0405 1206 49 0.0405 3591 145	\$- \$4.7: \$9,5
-//	Assumes 1 thisate sample required to leave containment in place Assumes 1 thisate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 1 Tank 2 (IF APPLICABLE) Tank Ferrin Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers impetition included in Closure Certification Activity below Cotiect Rinsate Sample(s) (1 per tank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) Drilling for Soil Samples (2.5 in boring to 1 ft each) Work Rate for Orilling (hours per fort) Number of Feet (substitut sample depth + 1 foot each) Labor and equipment per work hour (PPE Level D) Collect 2 Soil Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs Decontaminate fasts to be decontainmented Labor and equipment for lank decon (PPE Level C) Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 eq ft (hotins per square foot) Total Area of Containment (includes walts and floor) Lebor and equipment for task decon (PPE Level D) Labor and equipment for fasts decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$189/sample Total per sample cost VOCs @ \$189/sample SVOCs @ \$189/sample Total per sample cost	\$91.88 \$146.29 \$91.88 \$97.23 \$658	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00 0.0405 1208 49 0.0405 3591 145	\$ \$4.7 \$9,5
-//	Assumes 1 thisate sample required to leave containment in place Assumes 1 thisate sample required from beneath containment in place Assumes 2 sell samples required from beneath containment area. Actual number of samples will be based on eng fank interior Square Footage (based on tank volume) Tank 1 Tank 2 (IF APPLICABLE) Tank 1 Tank 2 (IF APPLICABLE) Tank Ferrin Containment Square Footage (includes floor and walts) Prime Gentractor Costs Costs for oversight and engineers impetition included in Closure Certification Activity below Cotiect Rinsate Sample(s) (1 per tank and 1 per containment) Work Rate for Samples Labor and equipment per work hour (PPE Level D) Drilling for Soil Samples (2.5 in boring to 1 ft each) Work Rate for Orilling (hours per fort) Number of Feet (substitut sample depth + 1 foot each) Labor and equipment per work hour (PPE Level D) Collect 2 Soil Samples Work Rate for Sampling (hours per aample) Number of Samples Labor and equipment per work hour (PPE Level D) Subcontractor Costs Decontaminate fasts to be decontainmented Labor and equipment for lank decon (PPE Level C) Decontaminate Tank Containment Area Work Rate to Pressure Wash 1 eq ft (hotins per square foot) Total Area of Containment (includes walts and floor) Lebor and equipment for task decon (PPE Level D) Labor and equipment for fasts decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for cSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D) Labor and equipment for CSA decon (PPE Level D)	Total Tank Interior Square Footage Labor/equipment Labor/equipment Labor/equipment VOCs @ \$189/sample SVOCs @ \$159/sample Total per sample cost VOCs @ \$189/sample	\$91.88 \$146.29 \$91.85 \$97.23	1206 0 1206 2908 0.5000 1 0.50 0.3050 2 0.81 0.5000 2 1.00 0.0405 1206 49 0.0405 3591 145	\$ \$4.7 \$9,6

Unit Charge Estimate Category Actions 3 DECONTAMINATE THE RETURN/FILL STATION Decontamination shall consist of washing with detergent/water solution and ringing with high pressure spray - Deconfirmmentors area consist of washing with detergenowater solution and meany with ingriginesses oping.

- Returtiff is structure and dock area will remain in place for shring deconfirmmentor.

- Drum washers to remain in place or sent olicite for reuse following deconfamination.

- Rinsate sampling required from each drum washer to remain in place or sent offshe for reuse, and from containment.

- Resumes 2 soit samples required from benefit confaminations, and in the place of sent offshe for reuse, and from containment.

- Square footage used for deconfamination includes confainment, dock and drum washer units. Square Footage 4212 Prime Contractor Costs

-Costs for overlight and engineers inspection included in Clasure Certification Autivity below - Collect Rimurie Samples (1 per drum washer plus containment) 0.5000 Work Rate for Sampling (house per sample) Number of Samples \$91.55 1.00 592 Labor/equipment Labor and aquipment per work hour (PPE Level D) Drilling for Soli Samples (2.5 in boring to 1 ft each) 0.3050 Work Rate for Drilling (hours per foot)
Number of Feet (substab sample depth = 1 foot each)
Later and equipment per work hour (PPE Level D) Labor/eq:/pment \$146,29 0.61 \$89 Collect Soil Samples
Work Rete for Sampling (per sample) 0.5000 Number of Samples Labor and equipment per work hour (PPE Level D) \$92 \$91.88 1.00 Labor/edulament Subcontractor Costs
- Decordaminate waste AST, plping and appurtenant equipment
Work Rate to Pressure Wash (hours per square foot) 0.0405 4212 171 Area of Returen/Fill to be decontaminated Lebor and equipment for tank decon (PPE Level C) \$97.23 \$16,566 Labor/equipment Laboratory Subconfractor Costs

- Analyze 1 sinusts sample per drum waster and confainment for VOCs, SVOCs and RCRA metals VOCe @ \$189/sample SVOCs @ \$359/enimple 8 RCRA Metals @ \$110/sample \$858 2 \$1,316 Total per sample cost VOCs & \$189/cample - Analyze soil sample(s) from containment area for VOCs, SVCCs and RCRA metals SVOCs @ \$359/sample & RCRA Metals @ \$110/sample \$1,310 \$658 Total per sample cost \$19,491 Activity 3 Subtotal 4. DECONTAMINATE CONTAINER STORAGE AREA(S) Assumptions:

- Decontamination shall constal of washing with a detergent water solution and rineing with a high-pressure spray

- CSA(s) to renter in-place following closure

- Deportment install of CSA includes floor, outsing and containment transfers

- Assumes 1 insasts and 2 sed samples required per CSA. Actual number of soil samples will be based on engineer's inspection

- CSA Containment Squere Footage Square Footage - CSA 1 - CSA 2 (IF APPLICABLE) 3792 3792 Total CSA Square Footage Prime Contractor Costs

-Costs for aversight and engineers inspection included in Closure Certification Activity below - Collect Rinsate Samples (1 per CSA) 0,5000 Work Rate for Sampling (hours per sample) Number of Samples \$91.88 0,50 \$46 Labor and aculpment per work hour (PPE Level D) Labor/equipment - Drilling for Sell Samples (2,5 in boring to 1 ft each) 0.3050 Work Rate for Orilling (hours per foot)
Number of Feet (substab sample depth = 1 foot each x number of samples)
Labor and equipment per work hour (PPE Level D) \$89 Labor/squipment \$148.28 0.61 - Collect Soil Samples
Work Rate for Sampling (house per sample) 0.5000 Number of Samples \$91.88 1,00 \$92 Lebor and equipment per work hour (PPE Level D) Labor/equipment Subcentractor Costs
- Decontaminate CSA(s)
- Vork Rete to Pressure Wesh (hours per square foot) 0.0405 3792 154 Total Area of Permitted CSA(s) to be decontaminated \$65.77 \$10,101 Labor and equipment for CSA decon (PPE Level D) Labor/equipment Laboratory Subcontractor Costs VOCs db \$189/sample Analyze rineate sample(s) from each CSA for VOCs, SVOCs and RCRA metals SVCCs @ \$359/sample & RCRA Melale @ \$110/sample \$658 \$658 Total per sample cost VOCs @ \$189/sample - Analyze 2 soil sample(s) from each CSA for VOCs, SVGCs and RCRA metals SVOCs 2 \$359/sample 8 RCRA Metals @ \$110/sample \$1,316 Total per sample cost \$12,302 Activity 4 Subtotal

Housey Rate House or

Subtotal

Asinby	Category	Hourly Rate or Unit Charge	Unit	Subtolal Conf
5 CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMINATION WASTES	= = = = = = = = = = = = = = = = = = = =			
Assumations:				
- Amount of decon wash water generated derived from previous closure experience. Quantity based on appro-	ximately 0.8 gel/ aq fi for lank ayetems ar	id 0.1 gal/sq ft lo	r containm	ent area toois
Unit Description	Square Footage	Number Gall	ons	Number Drums
STORAGE TANK DECONTAMINATION	1,206	965		16
DECONTAMINATE TANK CONTAINMENT	2,998	291		6
DECONTAMINATE THE RETURN/FILL STATION	4.212	3370		62
DECONTAMNATE CONTAINER STORAGE AREA(S)	3,792	379		7
PPE, CONSUMABLES, DEBRIS	NA	NA		5
Purchase 55-gallon drums to containentze waich water	Diums @ \$63 each	\$83	pe	\$8,947
Subcontractor Costs				
- Teomiter disease to hocke				4
Labor/Equipment (PPE Level D)	Labor/equipment per drum	\$3.57	98	\$350
Transport drums to TSD for Treatmen//Disposal				
Total Number of Trucks Required to Transport Drums (84 per truck max)			2	
Coal per mile ≠\$5 64/mile				
Meson = 500 miles (Number in second column is 500 miles x number trucks)	Transport trailer(s) x 500 miles	\$5,84	1000	\$5,640
Disposal/treatment cost (per drum - low cost based on lack of hazardous constituents)	TSD @ \$90/drum	\$90	93	\$8,370
Cisposol restinent cost for PPE drums (assumed haz to landill)	TSD @\$250/drum	\$250	5	\$1,250
Activity 5.	Subtatat	- necessariumizees	***************************************	\$24,557
S. GLOSURE CERTIFICATION				
Austrofyrn;				
- Cost Pro unit rate per unit to be closed is \$4,118				
Unit rate includes engineer impection and decontamination oversight of each unit				
Prime Contractor Costs				
- Overess and cartify closure per unit times number of units	Project Menager/Engineer	\$4,118	2	\$12,364
Activity 6	Subtotal			\$12,354
COST ESTIMATE ACTIVITIES SUMMARY				
1. INVENTORY REMOVAL				\$44,481
2. STORAGE TANK DECONTAMINATION				\$17,831
3. DECONTAMINATE THE RETURNIFILL STATION				\$19,401
I. DECONTAMINATE CONTAINER STORAGE AREA(S)				\$12,302
5 CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMENATION WASTES				\$24,597
6. CLOSURE CERTIFICATION				\$12,354
TOTAL CLOSURE COST ESTIMATE				\$131,017
CONTINGENCY				15%
TOTAL CLOSURE COST WITH CONTINGENCY				\$150,669

- Notes:

 Estimate assumes that waste management units are at permitted capacity at time of closure, which is the most appearative in the Lacisty's operating life.

 All unit rates obtained from Coal Pro version 6.0, which is designed to be representative of 2rd party coats and includes the following:

 Transportation @ \$6.9 st/mich and 300 mile trip
 Disposal for bulk liquids \$0.45fgatton based on suitability of waste interest spirits as faust
 Disposal of 25.4 liquids \$0.45fgatton based on suitability of that waste attended waste attended to the coal of the contents of the coal of the contents waste for the coal of the contents waste (soapy water).

 Subcontractor Decontamination Rate for that containment, CSAs and Flams that (if applicable) based on PPE Level D.

 Prime Confractor Rates based on hourly rate for insets sampling, dritting and soil sample collection.

 Lab subcontractor rates for analysis of insets and soil samples (Assumes VOCs, SVOCs and metals).

 -Ctosure Certification Activity includes contractor oversight, PE Integrity Inspections and reporting/Certification.

Instructions: Enter unit capacity and dimensions for each permitted unit. See notes below for color code key. Only cells highlighted in red should be changed to match site conditions. Numbers in red are site specific and should be changed to match actual permitted units. Enter appropriate dimensions or capacities based on actual dime Closure cost estimate worksheet includes 2 tanks and 2 CSAs. Enter 0 for second unit capacity if a second unit is not present Numbers in bold red are linked and will autopopulate on the closure cost estimate worksheet

Numbers in blue below represent cells with formulas and are calculated values - DO NOT CHANGE CELLS WITH BLUE NUMBERS Numbers in bold black are typical dimensions that are linked and will auotpopulate on the closure cost estimate worksheet Numbers in black below are generally not included in SK permits or closure plans and are estimated based on typical dimensions Numbers in bold blue below are linked and will autopopulate on the closure cost estimate worksheet

ILIS AND SOUARE FOOTAGE RECALCULATE WHEN TANK CAI

Permitted Tanks (ASSUMES 18 P	Permitted Tanks (ASSUMES 18 FOOT TALL TANK AS DEFAULT; KADIOS AND SQUAKE FOOTAGE NECALCOLATE WITHIN TAINS	SQUARE FOOTAGE F	SECALOOLA I E VIIILIA I DIVIN C
Tank 1 Capacity	(20000 gallons	
Kadius	b Tank 1 Interior Square Footage	904.7787	
Tank 2 Capacity	•	0 gallons	
Radius	u Tank 2 Interior Square Footage	0	
	Length Width Height Number		
Tank Farm Containment Floor Dimension	57 39 3	2223	
Wall Dimensions (1919) Wall Dimension (short)	39 39 2	234	X
	Total TF Square Footage	2799	
Return/Fill Capacity of Drum Washer	Fill Capacity of Drum Washer 1 (typical, capacity estimated)	108 gallons	enter in capacity if specified in p
Capacity of Drum Washer 2	· 2 (typical, capacity estimated) Total Drum Washer Capacity	108 gallons 216 gallons	enter in capacity if specified in p
Square Footage (typical estimated)		4212	

per

CSA 1 Containment

Permitted Capacity 79 48 3792 square for Dimension 79 48 3792 square for Dimension 3792 square f	Containment0 gallonsPermitted Capacity0 gallonsFloor Dimension0 square f
Permitted Floor Dime	CSA 2 Containment Permitted Ca Floor Dimens

feet

0 square feet

Part II

- A. General
- 4. FACILITY SECURITY

SECURITY PROCEDURES AND EQUIPMENT

In accordance with 40 CFR 264.14, access to the facility is controlled through the following methods:

- Entry to the container and return/fill areas will be controlled through gates and doors.

 All gates and doors will be locked at all times when facility is not in operation. The entire facility is surrounded by a chain-link fence topped with barbed wire.
- 2. The combination of doors and signs prevents unknowing entry and minimizes the potential for unauthorized entry of people or livestock into the facility.
- 3. Signs are posted at the entrance of the facility and additional locations so that they are visible from any approach at 25 feet. Signs are marked "DANGER UNAUTHORIZED PERSONNEL KEEP OUT".
- 4. "NO SMOKING" signs are posted in areas where hazardous wastes are handled.

SAFETY-KLEEN SYSTEMS, INC. SANFORD FACILITY

PREPAREDNESS, PREVENTION, CONTINGENCY PLAN, AND EMERGENCY PROCEDURES FOR DAILY BUSINESS OPERATIONS

Revision 0 - 11/10/18

TABLE OF CONTENTS

EMERGENCY COODINATOR/CONTACT LIST	iii
QUICK REFERENCE GUIDE	QRG – 1 - 8
GENERAL INFORMATION	4
DESCRIPTION OF ACTIVITIES	4-7
INSPECTION PROCEDURES	7-10
EMERGENCY NOTIFICATION	10
ACTIONS OF THE EMERGENCY COORDINATOR	10-14
POTENTIAL SPILL SOURCES (ACTIONS/PROCEDURES)	14-20
DECONTAMINATION	20-21
EMERGENCY RESPONSE EQUIPMENT/COMMUNICATION	21-22
FIRE CONTROL PROCEDURES	22-24
EXTERNAL EMERGENCY FACTORS	24-26
EVACUATION PLAN	26
AVAILABILITY/REVISION OF THE PLAN	26-27
ARRANGEMENT WITH LOCAL AUTHORITIES	27

Revision Date: 10/29/12

Safety-Kleen Sanford Branch Emergency Coordinators Phone Numbers

Primary:

Alex Hilley

474 Venetian Villa Dr.

New Smyrna Beach, FL 32168

Office (407) 321-6080 Cell (407) 790-9814 Alternate:

Gary Howard

1461 Elk Ct.

Deltona, FL 32725 Office (407) 321-6080 Cell (321) 363-6524

Emergency Notification Numbers

(Safety-Kleen's 24 Hour Emergency Response Reporting System) 1-800-468-1760

Florida DEP- Central District, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803

(407) 897-4100 (Monday – Friday, 8:00 a.m. to 5:00 p.m. except Holidays) After Hours, please call (850) 413-9911 or 1-800-320-0519

If you are unable to contact the DEP at the above, please call:

National Response Center 1-800-424-8802

Emergency Teams to be Notified:

Sanford Fire Department 1303 South Lake Avenue Sanford, FL 32771 (407) 688-5040 or 911

Sanford Police Department 815 Historic Goldsboro Blvd. Sanford, FL 32771 (407) 688-5070 or 911

Central Florida Regional Hospital 1401 West Seminole Blvd. Sanford, FL 32771 (407) 321-4500

Contingency Plan Quick Reference Guide

Safety-Kleen Systems, Inc. 600 Central Park Drive Sanford, FL 32771

Facility Contacts:

Primary Emergency Coordinator: Alex Hilley I

Alex Hilley Mobile Number (24/7): (407) 790-9814 Gary Howard Mobile Number (24/7): (321) 363-6524

Secondary Emergency Coordinator: Gary Howard M Safety-Kleen Emergency Response Number:

(24/7): (800) 468-1760

Note: Safety-Kleen operates Monday-Friday 7:00 am - 6:00 pm. The Safety-Kleen Emergency Response Number is available 24/7 for response to emergency situations at all Safety-Kleen facilities.

Hazardous Waste Information:

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment Personnel
Branch Contaminated	D001 (ignitability, flash point	NW corner of	Four, 55-gailon	If personnel come into	None
Debris	<140 °F), D004 (toxicity),	warehouse,	drums (1,600 lbs.)	direct contact with	
	D005 (toxicity); F002, F003,	container storage		material, decontamination	
	F005 (tetrachloroethylene,	area		at the hospital may be	
	trichloroethylene, acetone,			required prior to	
	methyl ethyl ketone, toxicity)			treatment.	
Branch Contaminated	D001 (ignitability, flash point	Two Satellite	One, 55-gallon	If personnel come into	None
Debris	<140 °F), D004 (toxicity),	accumulation	drum at each	direct contact with	
79	D005 (toxicity); F002, F003,	areas as noted	location (400 lbs.)	material, decontamination	
	F005 (tetrachloroethylene,	with (BCD) facility		at the hospital may be	
	trichloroethylene, acetone,	figure		required prior to	
	methyl ethyl ketone, toxicity)			treatment.	

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location	Maximum Amounts	Response Notes	Special Notes to
		Accumulated	Present		Hospital/Treatment
					personnel
Spent aerosol cans	D001 (ignitability, flash	NW corner of	One, 30-gallon drum	In the event of excessive	None
	point <140 °F), D035	warehouse,	(100 lbs.)	temperatures (fire) cans	
	(toxicity)	container		may depressurize and	
		storage area		possibly explode in severe	
				cases.	
Spent aerosol cans	D001 (ignitability, flash	Warehouse –	One, 30-gallon drum	In the event of excessive	None
	point <140 °F), D035	midpoint of	(100 lbs.)	temperatures (fire) cans	
	(toxicity)	container		may depressurize and	
		storage area		possibly explode in severe	- 10
		noted by (AC)		cases.	
		on figure			
Paint Gun Cleaner	D001 (ignitability, flash	NW corner of	Fifteen, 5-gallon	In case of fire use carbon	If inhaled remove
	point <140 °F), D018,	warehouse,	drums (600 lbs.)	dioxide, regular foam,	person to fresh air, if
	D035; F003, F005	container		regular dry chemical,	in eyes rinse
		storage area		water spray and water fog	cautiously with water
				for extinction. Use PPE to	for several minutes,
				prevent contact with	if on skin remove
				skin/eyes/respiratory	immediately all
				system. Prevent sources	clothing and rinse
				of ignition and open	skin with water, if
				flames.	swallowed
					immediately call
					poison center, do not
					induce vomiting.

큠	
7.	
<u>w</u>	
\Rightarrow	
\subseteq	
-=	
4	
0	
ŭ	
\preceq	
_	
\subseteq	
=	
-	
æ	
~	
_	
_	
0	
~	
~	
ᆂ	
Ψ.	
St	
as	
ര	
-	
5	
SI	
3	
_	
2	
.0	
g	
N	
ര	
Ť	
_	

Name of Waste	Waste codes/hazards	Location	Maximum Amounts	Response Notes	Special Notes to
		Accumulated	Present		Hospital/Treatment
					personnel
Paint Related Wastes	D001 (ignitability, flash	NW corner of	Eight, 55-gallon	If personnel come into	None
	point <140 °F), D018	warehouse,	drums (3,600 lbs.)	direct contact with	
	(toxicity), D035 (toxicity);	container		material, decontamination	
	F003, F005 (Benzene,	storage area		at the hospital may be	
	Methyl Ethyl Ketone,			required prior to	
	Toluene, toxicity)			treatment.	
Dry Cleaning Waste (Perc)	D007, D039, D040	NW corner of	Four, 15-gallon	If personnel come into	Evaluate and support
Bottoms	(toxicity); F002 (toxicity)	warehouse,	drums (640 lbs.)	direct contact with	the airways,
		container		material, decontamination	breathing and
		storage area		at the hospital may be	circulation. Establish
				required prior to	intravenous access in
				treatment. Use PPE to	seriously ill patients.
				avoid absorption into the	Continuously
				respiratory tract.	monitor cardiac
					rhythm.
Dry Cleaning Waste (Perc)	D007, D039, D040	NW corner of	Two, 30-gallon drums	If personnel come into	Evaluate and support
Filters	(toxicity); F002 (toxicity)	warehouse,	(178 lbs.)	direct contact with	the airways,
		container		material, decontamination	breathing and
		storage area		at the hospital may be	circulation. Establish
				required prior to	intravenous access in
				treatment. Use PPE to	seriously ill patients.
				avoid absorption into the	Continuously
				respiratory tract.	monitor cardiac
					rhythm.

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	location Accumulated	Maximum	Response Notes	Special Notes to
			Amounts Present		Hospital/Treatment
					personnel
Dry Cleaning Waste	D001 (ignitability, flash	NW corner of	One, 16-gallon	If personnel come into	None
(Naptha) Bottoms	point <140 °F), D007,	warehouse, container	drum (162 lbs.)	direct contact with material,	
	D039, D040 (toxicity)	storage area		decontamination at the	
				hospital may be required	
				prior to treatment.	
Dry Cleaning Waste	D001 (ignitability, flash	NW corner of	One, 16-gallon	If personnel come into	None
(Naptha) Filters	point <140 °F), D007,	warehouse, container	drum (120 lbs.)	direct contact with material,	
	D039, D040 (toxicity)	storage area		decontamination at the	
				hospital may be required	
				prior to treatment.	
Immersion Cleaner	D027, D039, D040	NW corner of	Four, 16-gallon	Fire response: use carbon	None
	(toxicity)	warehouse, container	drums (280 lbs.)	dioxide/dry	
		storage area		chemical/alcohol resistant	
				foam/water spray or water	
				fog.	
Hydrochloric Acid	D002 (corrosive)	Transfer waste storage	Two, 55-gallon	Suitable extinguishing	Move exposed
		areas (southern portion	drums (800 lbs.)	agents: water, dry chemical,	persons to fresh air,
		of container storage area		chemical foam, carbon	wash affected areas
		or NW Return/Fill station		dioxide or alcohol-resistant	with soap/water,
		bay		foam. Combustion products	rinse affected areas
				may include carbon oxides	with water for at
				or other toxic vapors. Use	least 15 minutes.
				PPE to protect eyes, skin,	Seek medical
				and respiratory tract.	attention
					immediately.

••
(continued)
ation
Informa
Waste
ardous
Haz

Name of Waste	Waste	Location Accumulated	Maximum Amounts	Response Notes	Special Notes to
	codes/hazards		Present		Hospital/Treatment
					personnel
Sulfuric Acid	D002 (corrosive)	Transfer waste	Two, 55-gallon drums	Suitable extinguishing	Move exposed
		storage areas	(800 lbs.)	agents: water, dry	persons to fresh air,
		(southern portion of		chemical, chemical foam,	wash affected areas
		container storage area		carbon dioxide or alcohol-	with soap/water,
		or NW Return/Fill		resistant foam. Thermal	rinse affected areas
		station bay		decomposition can lead to	with water for at
				release of irritating gases	least 15 minutes.
			3 B 1 H	& vapors. Use PPE to	Seek medical
				protect eyes, skin, and	attention
				respiratory tract.	immediately.
Waste Gasoline	D001 (ignitability,	Transfer waste	Two, 55-gallon drums	Use dry chemical, CO2,	Do not induce
	flash point <140 °F),	storage areas	(800 lbs.)	water spray or fire-	vomiting if
	D008, D018	(southern portion of		fighting foam to	swallowed, rinse
	(toxicity)	container storage area		extinguish. In the event of	mouth, remove any
		or NW Return/Fill		fire responders should use	contaminated
		station bay		approved pressure-	clothing, rinse
				demand self-contained	affected eye/skin
				breathing apparatus with	areas with water.
				full-face piece and full	Seek immediate
				protective clothing.	medical attention.
Hazardous Waste Liquid	D008 (toxicity)	Transfer waste	Two, 55-gallon drums	If personnel come into	None
(Lead)		storage areas	(800 lbs.)	direct contact with	
		(southern portion of		material, decontamination	
		container storage area		at the hospital may be	
		or NW Return/Fill		required prior to	
		station bay		treatment.	

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum	Response Notes	Special Notes to
			Amounts Present		Hospital/Treatment
					personnel
Waste Petroleum	D001 (ignitability, flash	Transfer waste	Two, 55-gallon	Prevent sources of ignition	None
Distillates	point <140 °F)	storage areas	drums (800 lbs.)	and open flames.	
		(southern portion of			
		container storage area			
		or NW Return/Fill			
		station bay			
Hazardous Waste Solid	D007, D011 (toxicity)	Transfer waste	Two, 55-gallon	If personnel come into	None
(Chromium, Silver)		storage areas	drums (1,000 lbs.)	direct contact with	
		(southern portion of		material, decontamination	
		container storage area		at the hospital may be	
		or NW Return/Fill		required prior to	
		station bay		treatment.	
Paint Related Waste	D001 (ignitability, flash	Transfer waste	Sixteen, 55-gallon	If personnel come into	None
	point <140 °F), D018	storage areas	drums (7,200 lbs.)	direct contact with	
	(toxicity), D035 (toxicity);	(southern portion of		material, decontamination	
	F003, F005 (Benzene,	container storage area	00	at the hospital may be	
	Methyl Ethyl Ketone,	or NW Return/Fill		required prior to	
	Toluene, toxicity)	station bay		treatment.	
Used Parts Washer	D001 (ignitability, flash	NE corner of the	Nineteen thousand	If personnel come into	None
Solvent	point <140 °F), D018,	Above Ground Storage	gallons. (Note:	direct contact with	
	D039, D040 (toxicity)	Tank Farm (Used Parts	Normal operating	material, decontamination	
		Washer Solvent Tank	capacity is	at the hospital may be	
		20-gallon capacity)	approximately	required prior to	
			7,000 gallons)	treatment.	

200
APPROXIMATE SCALE
(FEET)



ass & Supply

PREPAREDNESS, PREVENTION, CONTINGENCY PLAN, AND EMERGENCY PROCEDURES FOR DAILY BUSINESS OPERATIONS

GENERAL INFORMATION

Purpose

The preparedness, prevention, and contingency plan and emergency procedures are designed to comply with 40 CFR Part 264.30-56. In addition, the procedures in the plan ensure that Safety-Kleen reduces the possibility of emergency situations and, should they occur, respond in a manner to prevent or minimize hazards to human health or the environment from fire, explosion, or any unplanned sudden or non-sudden release of hazardous material constituents to the air, soil, surface water, or ground water at the facility.

The provisions of the plan are to be carried out immediately if there is a fire, explosion, or release of hazardous materials that could threaten human health or the environment. All responses must conform to the procedures contained in this plan.

General Description of Activities

The business activities conducted at the Sanford Branch relate to the leasing and servicing of Safety-Kleen Parts Cleaning Equipment, including the provisions of a solvent leasing service for the customers. Clean solvents are distributed from, and the used solvents returned to, the Branch, where separate storage tanks are utilized for the storage of clean and used parts washer solvent. One 20,000-gallon fresh parts washer solvent storage tank currently is utilized at the facility. In addition, a 20,000-gallon tank is used to contain hazardous waste solvent, two 20,000-gallon tanks are used for storage of Used Oil, and a 12,000-gallon tank (double-walled) is used for storage of used antifreeze. Warehouse space is designated for the storage of containers of both clean and used immersion cleaner, parts washer solvent, paint waste, Fluid Recovery Services (FRS) wastes, and dry cleaning wastes. Over-pack containers are used for the management of containers whose integrity has been compromised.

Parts washer solvents are transported in covered containers between the Branch and customers. Upon returning to the Branch, the used parts washer solvent is transferred from the containers into a wet dumpster (solvent return receptacle) in which coarse solids in the parts washer solvents are retained. Used parts washer solvent from the wet dumpster flows via 2-inch piping into a 20,000-gallon aboveground tank for storage. This piping runs west under the return/fill dock, and then turns south to the tank farm. The piping is connected by threaded connectors from the return/fill (inside secondary containment), and once leaving the return/fill it is connected by welded connectors until it reaches the tank farm. Hazardous waste parts washer solvent is picked up regularly by a bulk tank truck from a Safety-Kleen TSDF, which at the same time delivers clean parts washer solvent. The sludge in the wet dumpster is regularly cleaned out, containerized, and stored as Branch generated waste in a permitted waste storage area for later shipment to a permitted Safety-Kleen/Clean Harbors TSDF for reclamation or disposal.

The immersion cleaner remains in a covered container at all times during transportation and storage. The solvent is not transferred to another container while being used by the customers or while in storage at the Branch.

Dry cleaning wastes are picked up at commercial dry cleaning establishments in containers. Dry cleaning wastes handled by Safety-Kleen consist of spent filter cartridges, powder residue from diatomaceous or other powder filter systems, and still bottoms, all of which fall into the categories of either perchloroethylene-based waste or naphtha-based waste. The dry cleaning wastes are packaged on the customer's premises in containers.

All antifreeze collected and managed by Safety-Kleen within Florida is recycled. At the customer's location, Safety-Kleen pumps used ethylene glycol (antifreeze) into a Safety-Kleen used oil tanker truck. The SK collection trucks have more than one compartment so the antifreeze is picked up and stored in a separate compartment until off-load at the branch. The used antifreeze is transported from the customer site to the branch for storage until shipment to be reprocessed into a pure product. This procedure is in accordance with FDEP's Best Management Practices for Managing Used Antifreeze at Vehicle Repair Facilities, dated May 22, 2012. In addition, Safety-Kleen sells its' own private label antifreeze in 55-gallon containers. Customers

will then place used antifreeze in these containers to be shipped back to the branch. This material is shipped to SK distribution centers, and then shipped to 3rd party recyclers.

Safety-Kleen offers a service for the collection of bulk used oil, commonly referred to as Safety-Kleen Oil Services (SKOS). Straight tanker trucks are used to collect and transport bulk used oil. After collection, the used oil is transported to the branch for storage in two (2) above ground storage tanks within the tank farm. The Branch is registered as a used oil transfer facility, and may store used oil for more than 24 hours and less than 35 days. The used oil is then transported to the Safety-Kleen Ocala, FL facility.

Safety-Kleen also provides a paint waste reclamation service. Wastes containing various thinners and paints are collected in containers and are stored at the permitted container storage area. Paint wastes are received at the Branch on manifests which are terminated at that point. These wastes are then re-manifested and shipped to a permitted Safety-Kleen/Clean Harbors TSDF, and the regenerated solvent may be distributed to Safety-Kleen customers for use as a product.

The FRS wastes are packaged in polyethylene or steel containers which are not opened until they reach a permitted Safety-Kleen/Clean Harbors TSDF. The FRS wastes are transfer wastes and may be stored onsite for up to 10 days. The FRS wastes may also undergo branch-to-branch or truck-to-truck transfer. This transfer will occur at the return/fill station inside secondary containment.

The waste products exhibit essentially the same biological, physical, and chemical properties as the fresh product. Used products are basically fresh products with impurities of dirt and metals. Safety Data Sheets (SDSs) for each hazardous material are available at the Branch and on demand by fax through a company-owned SDS information service. This service provides 24-hour phone or fax access to an extensive SDS database.

The Branch is registered in Florida as a transporter and storage facility for mercury-containing lamps and devices destined for recycling. This registration includes a commitment to comply with the requirements of Florida Administrative Code (FAC) 62-737.400, including all training

requirements. As a registered small quantity handler of universal waste lamps/mercury devices, the Branch can only store up to 2,000 kilograms of lamps or 100 kg of mercury-containing devices at any one time. Safety-Kleen provides customers with empty four-foot and eight-foot boxes which hold up to 39 lamps. Boxes containing lamps are picked up from customers and are handled at the Branch as non-hazardous transfer wastes. The boxes are stored at the Branch in a designated area within the transfer waste storage area, and labeled in accordance with 62-737.400(5)(b), FAC. This storage area is partially isolated from other transfer wastes to avoid potential for accidental breakage. The boxes are periodically shipped to a permitted mercury recovery or reclamation facility. Prior to shipment out of the Branch, the boxes are placed on pallets and shrink-wrapped with plastic. Figures 5.1-1 and 5.1-2 show the basic site and floor plans and the locations of waste management facilities and facility storage. Table 5.1-1 provides information regarding permitted and transfer wastes handled at the facility.

Safety-Kleen handles all types of batteries with the exception of lithium batteries. All applicable batteries, per 40 CFR Part 273.2 & 273.9, are managed in accordance with the Standards For Universal Waste Management found in 40 CFR Part 273. Batteries not meeting these standards may be managed as 10-day transfer hazardous waste.

Note: All waste containers are unloaded within 72 hrs. of arrival at the facility and all waste containers are shipped outbound within 72 hrs. of being loaded for shipment.

INSPECTION PROCEDURES

Inspection of Safety Equipment

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of emergency and spill control equipment to ensure proper operation, and to maintain compliance. Table 5.2-1 is an Inspection Schedule. Inspections of Safety/Security equipment are completed electronically (CO Safety Security Inspection), or on paper using Figure 5.2-1 if the electronic system is not available. The Branch Manager or designee is responsible for carrying out the inspection in accordance with the following procedure and schedule.

- A weekly inspection of fire extinguishers must be performed to ensure that the tag date
 has not expired and the units are properly charged and accessible.
- A weekly inspection of eyewash stands must be performed to assure accessibility, and proper operation of this equipment. Inventory of the first-aid kit must be checked on a weekly basis.
- A weekly check of the supply of spill control equipment (absorbent material) must be performed.
- A weekly check of the conditions and inventory of other emergency equipment will be made. This includes gloves, aprons, goggles, respirators, and other personal protective equipment.

Inspection of Security Equipment

Security equipment inspections are completed electronically (CO Safety Security Inspection), or on paper using Figure 5.2-1 if the system is not available. The Branch Manager or designee, using the Weekly Inspection Log (Figure 5.2-1 or similar), inspects the security features of the facility weekly (e.g., gates and locks), looking for any evidence of sticking, corrosion, or unusual activity. The facility fence will be checked weekly for deterioration, gaps, and broken wire ties.

Inspection of Waste Management Facilities

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management and other material management facilities to ensure proper operation and maintain compliance. Table 5.2-1 provides an Inspection Schedule. The Branch Manager or designee is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule.

Daily inspections of aboveground tanks will include the following:

- Note volume in tank.
- Observe tank exterior for loose anchoring, wet stops, leaks.

- Check the automatic high level alarm. In addition, measure the depth of used solvent in the tanks to confirm the proper functioning of the automatic alarm system and to determine unexpected deviations in tank measuring data, or a sudden drop in liquid level, which may indicate leakage.
- Inspect secondary containment walls and piping.
- Inspect transfer pumps for leaking seals and overheated motors.
- Inspect the solvent dispensing hose, fittings, and valve for any leaks, damage, or wear that could cause a leak to develop.
- Inspect the valves for proper seat. Stem leaks from worn glands and warped valve bodies should be repaired. If the valve cannot be repaired, replace the unit.

Also, the tanks will be visually inspected and tested periodically. Daily inspection of the solvent return receptacle (wet dumpster) will consist of an inspection for leaks and excess dumpster mud build-up.

Daily inspections of the container storage area include the following:

- Verify that total volume is within permitted limits.
- Physically examine the condition of containers to verify that leaks have not occurred since the last inspection.
- Verify that all container identification, dates, and hazardous waste labels are attached and current.
- Inspect container placement and stacking such as aisle space, height, and stability of stacks.
- Examine containment areas to detect signs of deterioration and failure of the containment system such as cracks, breakage, settlement, and spillage.

Corrective Action

Any discrepancies or deficiencies found during routine inspections will be recorded in the inspection log and brought to the attention of a supervisor. At this time an evaluation of the

seriousness of the problem will be noted and a decision made if the situation requires immediate action or the problem can be handled as routine maintenance. The evaluation of the seriousness of the problem will be recorded in the facility's inspection log. If the problem poses a threat to human health or the environment, action will be taken immediately. The Branch Manager has the overall responsibility for resolving any discrepancies found during the routine inspection.

EMERGENCY NOTIFICATION

Emergency Coordinator

The Branch Manager or designee is the emergency coordinator. Page iii at the beginning of the plan includes the names, home addresses, and both office and home phone numbers of the primary emergency coordinator and alternate. At least one employee will be either present on the facility premises or on call with responsibility for coordinating all emergency response measures at all times. This primary emergency coordinator and alternate emergency coordinator are thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of materials handled, the location of all records within the facility, and the facility layout. In addition, these coordinators have the authority to commit the resources needed to carry out the contingency plan.

EMERGENCY RESPONSE AGENCIES AND TEAM MEMBERS

The agencies and response team members to be notified whenever an imminent or actual emergency occurs are presented on page iii, located at the beginning of this plan.

ACTIONS OF THE EMERGENCY COORDINATOR

Whenever there is an imminent or actual emergency situation, the emergency coordinator (or the designee when the emergency coordinator is on call) must immediately:

a. Notify all facility personnel present of the emergency. The relatively small size of this facility makes direct verbal communication the most expedient form of emergency

notification. The emergency coordinator may also elect to proceed to the front of the building and repeatedly sound a car horn to notify building occupants of an emergency. A head count will be performed by the emergency coordinator.

- b. Notify appropriate state or local agencies with designated response roles if their help is needed.
- c. Summon the primary emergency coordinator, if that person is absent.

 Whenever a release, fire, or explosion occurs, the emergency coordinator must immediately identify the character, exact source, amount, and areal extent of any released materials. Because of the limited types of chemicals in storage, the identification processes can easily be performed visually.

Procedure for Assessing Possible Hazard to the Environment and Human Health

- After identification of the character, source, amount, and extent of a release, fire, or
 explosion, the emergency coordinator must decide whether the situation can be contained
 or cleaned up by plant personnel and equipment.
- If a fire or explosion is determined uncontrollable by plant personnel or threatening neighboring establishments or population, assistance from a local emergency response agency shall be summoned immediately and an evacuation order requested.
- In case of a release outside of the containment area that is deemed immediately uncontainable or unrecoverable, the local emergency response agency and/or specialty cleanup contractor shall be called in.
- After termination of a fire or explosion or containment and preliminary cleanup of a spill, evaluate whether residues in the form of gas or liquid have become airborne, seeped into ground water, and/or flowed into surface water bodies.
- Expert assistance should be requested to determine whether the escaped materials are
 potentially harmful and whether the receiving medium ultimately will be a populated
 area, public water supply source, a private well, or an environmentally sensitive area.
- Additional steps shall then be taken to mitigate the potential impact on the environment and human health, in accordance with expert recommendations.

If the emergency coordinator determines that the facility has had a release, fire, or explosion or other emergency that could threaten human health, or the environment outside the facility, the coordinator must report those findings, as follows:

- If the assessment indicates that evacuation of local areas may be advisable, the coordinator must immediately notify appropriate authorities. The coordinator must be available to help appropriate officials decide whether local areas should be evacuated.
- The coordinator must immediately notify the State Warning Point at (800) 320-0519 (24 hours).
- The coordinator must immediately notify the Central District of the FDEP, (407) 897-4100 during regular business hours, and if a release equals or exceeds the Reportable Quantity (RQ) the National Response Center (800) 424-8802 must immediately (within 15 minutes) be contacted.

The report must include:

- (1) Name and telephone number of notifier;
- (2) Name and address of facility;
- (3) Time and type of incident (e.g., release, fire);
- (4) Name and quantity of material(s) involved, to the extent known;
- (5) The extent of injuries, if any; and
- (6) The possible hazards to human health, or the environment outside the facility.

The facility will comply with the reports required by permit conditions Part 1.8, and Part V.2 (SWMU information).

Immediate assistance in assessing and responding to an emergency is obtained by the emergency coordinator by calling the 24-hour Safety-Kleen emergency number ((800) 468-1760). The 24 hour emergency number is used by Safety-Kleen to respond to all reports of spills or chemical emergencies. All Safety-Kleen facilities in the state use this 24-hour emergency number. This allows Safety-Kleen to respond to any emergency with a maximum of effort, thereby reducing the threat to human health or the environment.

During an emergency, the emergency coordinator must take all reasonable measures necessary to

ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.

If the facility stops operations in response to a fire, explosion, or release, the emergency coordinator must monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.

Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.

The emergency coordinator must ensure that, in the affected area(s) of the facility:

- No waste that may be incompatible with the released material is treated or stored until cleanup procedures are completed; and
- All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.

The owner or operator must notify the appropriate state and local authorities that the facility is in compliance with the requirements of the preceding paragraph, before operations are resumed in the affected area(s) of the facility.

The owner or operator must note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, the owner must submit a written report on the incident to the Central District of the FDEP, at 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. The report must include:

- Name, address, and telephone number of the owner or operator;
- 2. Name, address, and telephone number of the facility;
- 3. Date, time, and type of incident (e.g., fire, explosion);
- 4. Name and quantity of material(s) involved;

- 5. The extent of injuries, if any;
- 6. An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- 7. Estimated quantity and disposition of recovered material that resulted from the incident.

POTENTIAL SPILL SOURCES

The following is a list of activities that have the potential for a small scale (less than 55 gallons of waste) pollution incident.

- 1. Moving of containers.
 - Every time a container is moved, the possibility exists that it could tip over or be dropped. To minimize the possibility of spillage of solvent under those conditions, all container lids must be secured before the container is moved.
- 2. Delivery truck container transfers.
 - a. Individual delivery containers hold from 5 to 55 gallons of waste, a quantity which can be contained by oil sorbent clay or pads, if accidentally spilled.
 - b. Each vehicle is equipped with a hoist and hand cart for ease of moving clean solvent containers off the truck and into the customer's shop and returning the dirty solvent containers to the truck.
 - c. Lids are secured on containers prior to movement to prevent a spill.
 - d. Each truck contains a complete spill kit, shovel, and a quantity of sorbent material to contain minor spills.
 - e. The cargo must be secured in the route vehicle before transit.

Spills Inside Buildings

In the event of a spill indoors, the doors and windows should be opened to improve the ventilation in the confined area. Following the instructions of the Safety Data Sheet (SDS), a worker would enter the area wearing rubber gloves, boots, and mop up the liquid and return it to dirty storage. Spills inside the building will be contained by the existing secondary containment structures, or by using available absorbent material and booms. Proper characterization, treatment, and disposal of the decontamination water will be done on a case by case basis depending on the material released. All material will be disposed of per federal, state, and local regulations. The cleanup is completed only when the workers have cleaned themselves and the emergency equipment with soap and water.

Spills on Concrete Pads

Concrete pads in loading and unloading areas are, in most cases, equipped with secondary containment. Under most spill conditions, product can be totally contained on the concrete surface and in the containment system. Upon containment, arrangements must be immediately undertaken to recover the material. Any soil that may be involved must be removed and handled in the same manner as the material spilled.

Tank Spills or Leakage

Aboveground tanks are underlain by a concrete slab and surrounded by a concrete dike to contain any spilled or leaked solvent. The containment system has been sized in accordance with the regulations, and the material will be totally contained under most spill conditions. Should a spill occur, arrangements must be immediately undertaken to recover the material. In the event of leakage, tank repair or replacement will be initiated. Any soil that may be involved must be removed and handled in the same manner as the material spilled. 40 CFR Part 264.196(d)(2) exempts spills equal to or less than one pound that are immediately contained and cleaned up.

Spill Control Procedures

If a solid or hazardous waste, or hazardous material discharge occurs:

- Stop the discharge, if possible, by immediately transferring the liquid to a good container.
 If the discharge involves a tank, immediately close all valves to and from the tank.
- 2. Retain, contain, or slow the flow of the material, if possible, by diking with sorbent pad or dirt. Based on the seriousness of the incident, the emergency coordinator will select the level of personal protective equipment required to address the incident. Pump and mop up the liquid from the floor into a good container and return the container to storage for subsequent shipment to a Safety-Kleen recycle center for reclamation/disposal. The area and equipment that comes in contact with the spill must be decontaminated with soap and water. All residues resulting from containment and decontamination will be collected for proper characterization.
- 3. If the material escapes the containment efforts, immediately call the 24-hour Safety-Kleen emergency number with response time less than two hours (page iii). Record the

date, time, and name of person taking the message. The State Warning Point ((800) 320 -0519) is to be contacted as soon as possible, but no later than within one working day of discovery of the release. If a release equals or exceeds the Reportable Quantity (RQ) the National Response Center ((800) 424-8802) is to be contacted within 15 minutes.

- 4. Immediately recover spilled solvent to reduce property and environmental damage using the emergency and safety equipment stored onsite for such situations (Figure 5.6-1 and Table 5.6-1), or call in emergency response contractors (page iii). Start recovery operations immediately. After recovery of spilled solvent, wash all contaminated impervious surfaces and equipment with soap and water. The residue of spill- or fire-contaminated soils and waste waters must be removed and disposed of at a Safety-Kleen recycle center. In addition, the recovered solvent will be sent to a Safety-Kleen recycle center for reclamation.
- The person reporting a spill should be prepared to give their name, position, company name, address, and telephone number. The person reporting also should give the nature of the material spilled (e.g., immersion cleaner, etc.) and, if possible, some estimate of the amount, and whether it is near a stream or could enter a stream by flowing through ditches or storm sewers. If assistance is needed, the emergency coordinator should describe the containment status and specify any additional equipment needed. When reporting a spill, record the date and time of the call and the name of the person answering the call at the above number. Spill prevention plans are reviewed with facility personnel every year, and records of the training are kept at the facility.

Spill/Release Response to Solid (Physical State) Waste

Response to a non-liquid waste (solid physical state) will require the use of a shovel to place the material into a new container. If the material is powder-like/particulate matter, care should be taken so as not to create dust or cause the material to become airborne. After the bulk of the material is recovered, a damp absorbent pad may be used to clean up residual material that cannot be captured with the shovel.

Information on every spill will be recorded through an internal database. A notification of each

spill will be sent to the Corporate Environmental Health and Safety Department.

Reports of emergency incidents will be transmitted to the Secretary of the FDEP or designee within 15 days of occurrence. This report shall include:

- 1. Name, address, and telephone number of the owner of operator;
- 2. Name, address, and telephone number of the facility
- 3. Date, time, and type of incident (e.g., fire, explosion);
- 4. Name and quantity of materials involved;
- 5. The extent of injuries, if any;
- 6. An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- 7. Estimated quantity and disposition of recovered material that resulted from the incident.

The facility will complete all permit condition spill reporting as required, and follow the requirements of Chapter 62-150, F.A.C. Hazardous Substance Release Notification.

Containment Systems

Containerized Wastes

The hazardous waste container storage area consists of three areas: the container storage area (CSA) located in the warehouse, the transfer waste storage area located in the warehouse, and the transfer waste storage area located in the Return/Fill station. These areas are shown in Figures 5.6-3 and 5.6-4. The containment system is free of cracks. Containers are stored on pallets whenever possible.

The container storage area shown in Figure 5.6-3 occupies a portion of the main building. This warehouse area has concrete floors, and a central collection trench to form a spill containment system within the area. The permitted container storage area has a 48' 3" X 78' 7" concrete floor that has a 2" slope towards one containment trench. The containment system was measured to have a capacity of 2,077 gallons. The maximum storage capacity in this area is 20,770 gallonswith 6,912 gallons being hazardous waste and the balance being various products. Waste allowed

for storage is paint wastes, immersion cleaner, dry cleaning solvent, parts washer solvent dumpster mud, tank bottoms, and oil filters. The types and number of each type of container may vary; however, the storage capacity will not be exceeded.

In the container storage area, containers are handled with a fork-lift and/or a hand-truck free of sharp points and stacked by hand. Every time a container is moved, the possibility exists that it will be tipped over, dropped, or punctured. To minimize the possibility of spillage, container lids are secured and containers are kept in an upright position. A small portable electric pump is available to quickly transfer the liquid from any leaking container into a safe container. Each route truck is equipped with a lift gate or an electric hoist. The appropriate device is used in the loading/unloading operation to minimize chances for spillage and/or employee injury. Containerized wastes at the Sanford facility are loaded/unloaded in the vicinity of the contained concrete dock on the northwestern side of the building (Figure 5.1 2) and return/fill dock. Because these areas are fully enclosed, spills originating in these areas should not come in contact with stormwater.

FRS Wastes and Transfer Wastes

Transfer wastes may be stored in the southern portion of the CSA and in the northwestern bay of the Return/Fill dock. The containment system in the warehouse is free of cracks and is sufficiently impervious to prevent seepage into and through the concrete. Since FRS wastes are transfer only, they are not required to have containment. Because these areas are fully enclosed within the building, spills originating in these areas should not come into contact with stormwater.

All containers are covered during movement and are located within diked, concrete floored areas to contain any potential spill. The small quantities of waste onsite at any time can be cleaned up immediately through the use of hand-held electric pumps, mops, wet/dry vacuums, or sorbent materials, should a spill occur. Any spilled waste is contained for offsite recycling/reclamation. All containerized waste movement is performed manually, by a pallet jack, or propane fueled forklift truck. Therefore, power outages are not expected to threaten employee safety.

Return/Fill Station

The return/fill station is located between the office and container storage area. A slight, slope (2-3 inches) exists, which terminates at the sumps (2'diameter, 2' deep). The sloped floors and containment sump were measured to have a containment capacity of 3,745 gallons, which equates to a storage capacity of 37,450 gallons. A 20 ft. wide steel grate dock (approximately 33 inches above the floor) is located perpendicular to the floor and extends the full width of this area (Figure 5.6-4). Any spill which occurs on the concrete floor is directed by gravity into the sumps. Any residual remaining on the floor can be cleaned up immediately through the use of mops, wet/dry vacuums, or sorbent materials, should a spill occur. Spilled waste is contained and sent for recycling/reclamation.

Doors in this area include four overhead roll-up doorways for trucks entering/exiting the service building, two personnel doorway for employees entering/exiting the service building, one overhead doorway connecting the return/fill station and container storage area (warehouse), one doorway connecting the return/fill station and the container storage area (warehouse), and one doorway connecting the return/fill station and the offices. The office floor and the container storage floor are approximately 33 inches above the return/fill station floor and are flush with the steel grate dock. Therefore, spills originating in the return/fill station will go into the sumps beneath the grate in the return/fill area and will not flow into these areas. Based on the capacity of the return/fill station collection sumps and sloped floor, it is extremely unlikely that a spill would escape through the overhead doorways or two doorways entering/exiting the service building. The area just outside the service building return/fill station is asphalt covered. Because the return/fill station is fully enclosed and the pavement outside this area is sloped to carry water away from the building, spills originating in this area should not come in contact with stormwater.

Tank Area

The tank area (Figure 5.6-5) houses four 20,000-gallon tanks and is provided with more than 28,000 gallons of secondary containment, which is in excess of the single largest tank (20,000 gallons). This containment area is only slightly sloped. Any spilled material is removed by pump or wet vacuum. When rainwater accumulates in the containment area, and it has been verified that no spill has occurred, then the rainwater will be discharged to the ground surface.

Verification is done by visual inspections of the tank area. As stated above, the tank farm holds 4-20,000 gallon tanks (2-used oil, 1-used solvent, 1-clean solvent), so contamination (by spill or release) of any rainwater that has accumulated in the secondary containment will be easily identified visually. Only the Branch Manager or someone operating under his/her direct orders may discharge to the ground surface. If it is not possible to verify that a spill has not occurred or the water exhibits an iridescent sheen, then the rainwater will be pumped into the used parts washer solvent tank. Any spills which occur on the pad will be cleaned up and the area decontaminated. Decontamination methods are discussed later in this Plan. This decontamination will result in de minimis residue.

Employee training emphasizes the importance of inspection, maintenance, personal safety, and reporting of conditions with pollution incident potential. This training, coupled with the Safety-Kleen's containment system and immediate cleanup of any spills, eliminates or greatly minimizes the chance of contamination of ground water and/or surface water in the vicinity of the site. In addition, surface run-off at the site does not come in contact with stored products in the waste management area.

DECONTAMINATION

Once the spilled material has been cleaned up, the spill area and equipment used during the spill clean-up must be decontaminated and/or disposed, as described below.

Concrete Surfaces/Containment Area

- Concrete surfaces/containment areas will be cleaned with a detergent solution and then
 rinsed with hot water. The rinsate will be collected via wet vacuums and placed in
 containers. Visual inspection will be used to determine the success of the
 decontamination procedure.
- The intent of the surface decontamination is to prevent current or future releases of
 materials to the environment. Vigorous cleaning with detergent is sufficient to prevent
 releases to the environment during normal operations. Potential for hazards from residual

materials to future occupants of the facility are addressed in the closure plans for the facility and the decontamination procedures incorporated therein.

Equipment

The equipment used to clean the area includes mops, pails, scrub brushes, and a wet/dry vacuum. Equipment which is considered reusable (i.e., pails, wet/dry vacuum, hoses) will be washed with detergent, and wash water and rinsate will be collected for proper disposal. All non-reusable equipment and/or equipment which is not capable of being decontaminated will be containerized and disposed of as hazardous waste. Equipment used in a response will be deemed fit for use after being used in any response.

Wash Water and Rinsate

If the rinsate or other wastes generated in the clean-up process is determined to be hazardous, it will be properly disposed of as a hazardous waste; otherwise, the material will be disposed of as an industrial waste. It should be noted that wash water and rinsate will not be allowed to drain to surface waters.

EMERGENCY RESPONSE EQUIPMENT AND COMMUNICATION

Due to the small size of the facility, routine communication will be accomplished by voice communication. Fire alarms are available in the office, warehouse, and return/fill station — monitored by a 3rd party that will immediately contact the local fire department if the alarms are activated. Emergency alarms are available at the return/fill station and CSA — these alarms can be activated manually and sounds in the office, and local fire department to indicate an emergency situation. High level alarms are available at the tank farm. Telephones are used in case of a spill or fire emergency to summon assistance. Emergency numbers are posted by phones throughout the facility. Included with these phone numbers is the 24-hour Safety-Kleen spill number. Figure 5.6-1 provides the locations of fire extinguishers, first-aid kits, emergency eyewashes, alarms, and spill equipment. Other emergency response equipment (Table 5.6-1) is kept in a small storage area inside the warehouse. This equipment includes mops and buckets, soap, shovels, and spill sorbent pads. Rubber gloves, boots, pumps, and a wet/dry vacuum Cleaner are stored in an emergency supply area near the container storage area. Descriptions and

uses of the equipment are provided in Table 5.8-1. Adequate aisle space is provided in the container storage area for movement in an emergency situation. The City of Sanford supplies water for domestic use, decontamination, and fire fighting. The water pressure supplied by the City of Sanford was inadequate for fire-fighting purposes, so a booster pump has been installed at the facility. The fire protection system was installed and certified by the installation contractor in accordance with applicable fire codes.

Pails, hoses, and detergents are the primary equipment that will be used for decontamination. The equipment available at the facility for emergency situations is adequate for most cases. Large or serious emergency situations will be remediated by local emergency response teams or special emergency response or cleanup contractors. The facility is constructed and operates in accordance with National Fire Protection Association (NFPA) standards and applicable local ordinances. Applicable health and safety standards are also observed at the facility.

All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment will be tested and maintained as necessary to assure its proper operation in time of emergency.

FIRE CONTROL PROCEDURES

In the event of a fire at the facility, the following activities will be executed.

Call the Fire Department (page iii). [Note: Center aisles are available in container storage areas to permit fire department personnel to pass with fire fighting equipment.]

Act quickly with the fire extinguisher to put out the fire before it spreads.

Call the Police Department (page iii) to maintain traffic and on-lookers and local hospital (page iii) to notify the type and extent of injuries, if any.

Ignitable Wastes

All wastes and products are kept away from ignition sources--Personnel must confine smoking

and open flames to remote areas, separate from any solvent (e.g., outside front of facility). The parts washer solvent and paint waste handling areas are separated from the office area to minimize the potential for a fire to spread or injury to personnel to occur.

The tank farm is more than 20 feet from the property line as required in 40 CFR Part 264.198(b).. Likewise, the flammable storage area is 50 feet or more from the property line per 40 CFR Part 264.176. Both of these distances meet the NFPA code for storage of ignitable materials.

Ignitable wastes are handled so that they do not:

- 1. Become subject to extreme heat or pressure, fire or explosion, or a violent reaction--The parts washer solvents and paint wastes are stored in a tank or in containers, none of which are near sources of extreme heat, fire, potential explosion sources or subject to violent reactions. The tanks are vented and the containers kept at room temperature to minimize the potential for pressure build-up. The tanks are painted white to reflect sunlight and are vented to prevent pressure build-up.
- 2. Produce uncontrolled toxic mists, fumes, dusts, or gases in quantities sufficient to threaten human health--The vapor pressure of petroleum based parts washer solvent is low (2 mm mercury) and it and the paint waste may react with strong oxidizers and reactive metals only. Toxic mists, fumes, and dusts do not form in quantities sufficient to threaten human health since strong oxidizers are not handled at this facility and the solvent vaporization is minimal under normal working conditions.
 - [Note: Drycleaning wastes are initially not flammable, but may produce toxic gases and hydrochloric acid at elevated temperatures (about 1,200°F).]
- 3. Produce uncontrolled fires or gases in quantities sufficient to pose a risk of fire or explosion--See "1" above and "4" below.
- 4. Damage the structural integrity of the Safety-Kleen facility--The parts washer solvent and paint wastes do not cause deterioration of the tank, drums, or other structural components of the facility.

Incompatible Wastes

Incompatible wastes are segregated in an appropriate manner in accordance with industry standards. All waste or products are kept away from ignition sources. Employees must confine

smoking or open flames to designated safe areas.

Materials are handled so they do not:

- a. Generate extreme heat or pressure, fire or explosion, or violent reaction.
- b. Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health.
- c. Produce uncontrolled fires or gases in sufficient quantities to pose a risk of fire or explosion.
- d. Damage the structural integrity of the Safety-Kleen facility.

Adequate aisle space is maintained to allow unobstructed movement of personnel, fire protection equipment, and decontamination equipment to any area of the facility operation in an emergency.

External Factors

The design of the facility is such that a harmful spill is highly unlikely to occur from most external factors. The storage tanks are inaccessible to non-Safety-Kleen personnel. Also, the container storage areas are in buildings which are inaccessible to unauthorized personnel.

- 1. Vandalism Only extreme vandalism would result in a solvent spill or fire. Responses to spills and fires are described in a previous section of this Plan.
- 2. Employee Strikes A strike would not result in a solvent spill or fire.
- 3. Power Failure A power failure would not result in a spill or fire. Should a power failure occur, all activities requiring electricity will cease.
- 4. Flooding The waste management facility elevation is above the projected 100-year flood plain; therefore, a 100-year flood will not affect the facility.
- 5. Storms or Cold Weather The solvent return/fill station, tank storage, and the container storage areas are roofed to eliminate the possibility of rain entering the waste management areas. Neither snow, cold weather, nor stormwater is expected to affect the facility.
- 6. Hurricanes Safety-Kleen will adhere to the following procedures in the event of an approaching hurricane:

Hurricane Watch

- Compile list of employees with telephone numbers. Give each a call-in number for the branch (Branch Manager cell phone or branch number) in the event operations are interrupted.
- Prepare battery-operated radio (if the facility has one) and other equipment in the case of power outage.
- Complete cleanup of facility property all empty drums, containers, trash containers, chairs, spill kits, etc. should be brought inside the facility structure.
- Facility services should be restricted to local routes (no more than 30-45 minutes from the facility) in case weather conditions deteriorate.
- Ensure any areas which may be exposed to rainwater are clean and secure filling nozzles.
- Route trucks should be re-fueled prior to the storm, emptied of all wastes and product, secure lift gates and side compartments.
- Ensure all bulk collection trucks have off-loaded into the facility storage tank or BIDS terminal.
- Move trucks inside building as possible and park the remaining trucks as close to the building as possible (preferably at the bay doors).
- Secure computers, monitors, etc. and wrap in plastic with tape.
- If possible schedule solvent tanker in a manner, which would allow the maximum volume of liquid to remain in the storage tanks as the structural integrity of a tank increases with content volume. Camlock all ends of hose fittings and turn off valves at the storage tanks.
- After all preparation has concluded, all employees should be sent home and the facility secured. Turn off main breaker.

Hurricane Warning

- All employees are excused from work if their county of residence is put under a hurricane warning. However, the branch manager or other key personnel may be available to perform some last minute activities if weather permits.
- Notification, via incident alert system or telephone, that a hurricane warning has been posted.

- Walk-around of facility to ensure all preparation work conducted under the hurricane watch has been completed.
- Completion of any remaining items that were not finished.

Following Hurricane

- Depending on the intensity of the storm, the following actions should be carried out as soon as conditions permit.
- Employees should phone-in, following local government employee guidelines, for returning to work.
- Branch manager and/or the emergency coordinator should be the first people to enter the facility. Perform a complete walk-around of the facility checking for security of premises, waste management areas, determine if there are any safety issues that pose risk for employees, inspect for any damage, looting, or theft and generate a list of items to report.

EVACUATION PLAN

In an uncontrolled emergency, all persons are to be evacuated from the area by means of a verbal cry or use of the public address system and are to assemble across the street from the entrance drive to the facility to assure that all personnel are accounted for and out of the area. The emergency coordinator may elect to use a car horn as a means of emergency notification. A head count will be performed by the emergency coordinator.

The Fire Department must be notified at the time of evacuation either from a safe onsite building or neighboring facilities. Clearly marked exits exist in warehouse and office area.

AVAILABILITY AND REVISION OF THE PREPAREDNESS, PREVENTION, AND CONTINGENCY PLAN

This Plan and all revisions to the Plan are kept at the facility and regularly updated throughout the operating life of the facility. Copies of this document are provided to local authorities and organizations listed under the Preparedness and Prevention Plan, which may be called upon to provide emergency services. This Plan and all revisions to the Plan are made readily available to employees working at the facility.

This Plan is reviewed and updated, if necessary, whenever:

- The facility permit is modified to allow new process wastes to be stored or treated, or applicable regulations are revised;
- 2. The list or location of emergency equipment changes;
- 3. The facility changes in its design, construction, operation, maintenance, or other circumstances in a way that:
 - a. Materially increase the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or
 - b. Changes in response necessary in an emergency.
- 4. The names, addresses, or phone numbers of emergency coordinators change;
- 5. The employee assigned to each emergency task changes, or
- 6. The plan fails when implemented in an emergency.

ARRANGEMENTS WITH LOCAL AUTHORITIES

Arrangements have been made to familiarize the Police Department, Fire Department, and local emergency response teams with the layout of the facility, properties of hazardous materials handled (Material Safety Data Sheets) at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes. The local fire department also conducts annual fire inspections to ensure we are in compliance, and this also gives the Department an opportunity to familiarize themselves with the layout of the facility in person.

Arrangements have been made to familiarize the local hospital with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which would result from fires, explosions, or releases at the facility.

Appendix A of this Plan (located at the end of this section) includes copies of example distribution letters for transmittal. Copies of updated transmittal letters are kept on file at the facility.

Appendix A

Example Letters to Local Authorities

Certified Mail

Sanford Fire Department 1303 South Lake Avenue Sanford, FL 32771

RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771

Dear Sir/Madam:

Under terms of the Environmental Protection Agency (EPA) regulations 40 CFR 264, Subpart D, Safety-Kleen Systems, Inc. (SK) must provide local police, fire departments, hospitals, and state or local emergency response teams with a copy of the contingency plan for the above-referenced facility, and any revisions to the plan. A copy of the updated contingency plan is enclosed for your files. Please review this updated contingency plan.

EPA regulations 40 CFR 264, Subpart C, require that SK attempt to make arrangements for the provision of emergency assistance. Emergency assistance for this facility may be needed from the police and fire departments, state emergency response teams, and hospitals. The completion and return of the enclosed form will acknowledge receipt of this update to the contingency plan and provides your agreement to be available for emergency assistance.

Thank you for your cooperation in this matter. Should you have any questions or desire to visit our facility, please contact me at (407) 321-6080.

Sincerely,

Branch Manager Safety-Kleen – Sanford

Enclosures

(Date)
Sanford Fire Department 1303 South Lake Avenue Sanford, FL 32771
Branch Manger Safety-Kleen Systems, Inc. 600 Central Park Drive Sanford, FL 32771
RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771
Dear Branch Manager:
This is to acknowledge that the Sanford Fire Department has been made aware of the potential need for emergency assistance associated with the operation of the Safety-Kleen Systems, Inc. (SK) facility at 600 Central Park Drive, Sanford, FL. The Sanford Fire Department understands that the emergency coordinator is available to provide additional information on the nature of assistance that may potentially be required, type of physical and chemical hazards that may potentially be encountered, and the type of injury or illness that may potentially occur.
This is to acknowledge receipt of the updated contingency plan information for the Sanford, Florida facility.
The Sanford Fire Department (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems, Inc. facility at 600 Central Park Drive, Sanford, FL 32771.
Sincerely,
(Signature)
(Title)

Certified Mail

Sanford Police Department 815 Historic Goldsboro Blvd. Sanford, FL 32771

RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771

Dear Sir/Madam:

Under terms of Environmental Protection Agency (EPA) regulations 40 CFR 264, Subpart D, Safety-Kleen Systems, Inc. (SK) must provide local police, fire departments, hospitals, and state or local emergency response teams with a copy of the contingency plan for the above-referenced facility, and any revisions to the plan. A copy of the updated contingency plan is enclosed for your files. Please review this updated contingency plan.

EPA regulations 40 CFR 264, Subpart C, require that SK attempt to make arrangements for the provision of emergency assistance. Emergency assistance for this facility may be needed from the police and fire departments, state emergency response teams, and hospitals. The completion and return of the enclosed form will acknowledge receipt of this update to the contingency plan and provides your agreement to be available for emergency assistance.

Thank you for your cooperation in this matter. Should you have any questions or desire to visit our facility, please contact me at (407) 321-6080.

Sincerely,

Branch Manager Safety-Kleen – Sanford

Enclosures

(Date)
Sanford Police Department 815 Historic Goldsboro Blvd. Sanford, FL 32771
Branch Manager Safety-Kleen Systems, Inc. 600 Central Park Drive Sanford, FL 32771
RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771
Dear Branch Manager:
This is to acknowledge that the Sanford Police Department has been made aware of the potential need for emergency assistance associated with the operation of the Safety-Kleen Systems, Inc. (SK) facility at 600 Central Park Drive, Sanford, FL. The Sanford Police Department understands that the emergency coordinator is available to provide additional information on the nature of assistance that may potentially be required, type of physical and chemical hazards that may potentially be encountered, and the type of injury or illness that may potentially occur.
This is to acknowledge receipt of the updated contingency plan information for the Sanford, Florida facility.
The Sanford Police Department (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems, Inc. facility at 600 Central Park Drive, Sanford, FL 32771.
Sincerely,
(Signature)
(Title)

Certified Mail

Hospital Administrator Central Florida Regional Hospital 1401 West Seminole Blvd. Sanford, FL 32771

RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771

Dear Sir/Madam:

Under terms of Environmental Protection Agency (EPA) regulations 40 CFR 264, Subpart D, Safety-Kleen Systems, Inc. (SK) must provide local police, fire departments, hospitals, and state or local emergency response teams with a copy of the contingency plan for the above-referenced facility, and any revisions to the plan. A copy of the updated contingency plan is enclosed for your files. Please review this updated contingency plan.

EPA regulations 40 CFR 264, subpart C, require that SK attempt to make arrangements for the provision of emergency assistance. Emergency assistance for this facility may be needed from the police, fire departments, state emergency response teams, and hospitals. The completion and return of the enclosed form will acknowledge receipt of this update to the contingency plan and provides your agreement to be available for emergency assistance.

Thank you for your cooperation in this matter. Should you have any questions or desire to visit our facility, please contact me at (407) 321-6080.

Sincerely,

Branch Manager Safety-Kleen – Sanford

Enclosures

Hospital Administrator Central Florida Regional Hospital 1401 West Seminole Blvd. Sanford, FL 32771

Branch Manager Safety-Kleen Systems, Inc. 600 Central Park Drive Sanford, FL 32771

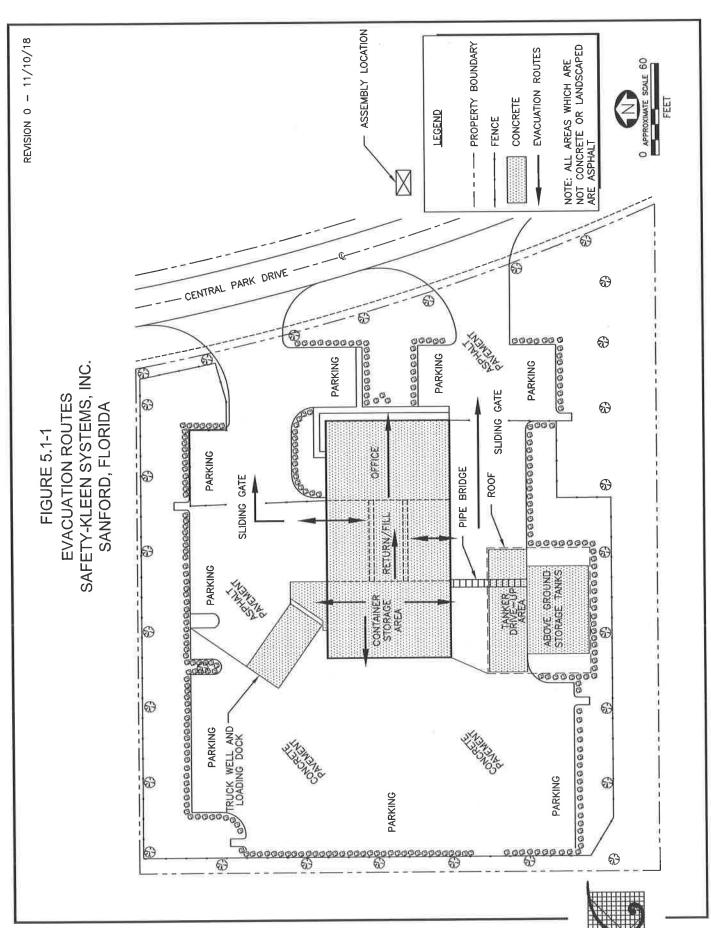
RE: Safety-Kleen Systems, Inc., 600 Central Park Drive, Sanford, FL 32771

Dear Branch Manager:

This is to acknowledge that the Hospital Administrator, Central Florida Regional Hospital, has been made aware of the potential need for emergency assistance associated with the operation of the Safety-Kleen Systems, Inc. (SK) facility at 600 Central Park Drive, Sanford, FL. The Hospital Administrator, Central Florida Regional Hospital understands that the emergency coordinator is available to provide additional information on the nature of assistance that may potentially be required, type of physical and chemical hazards that may potentially be encountered, and the type of injury or illness that may potentially occur.

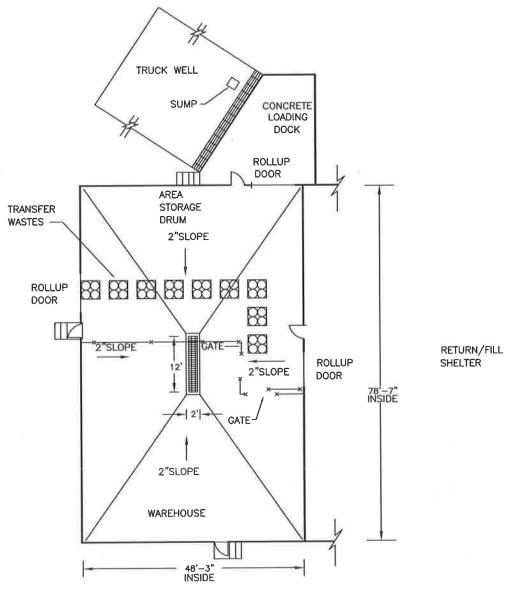
This is to acknowledge receipt of the updated contingency plan information for the Sanford, Florida facility.

The Hospital Administrator, Central Florida Regional Hospital (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems Inc. facility at 600 Central Park Drive, Sanford, FL 32073.
Sincerely,
(Signature)
(Title)



ERM

FIGURE 5.6-3 CONTAINER STORAGE AREA SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA



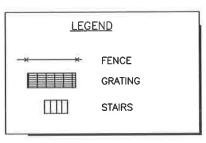
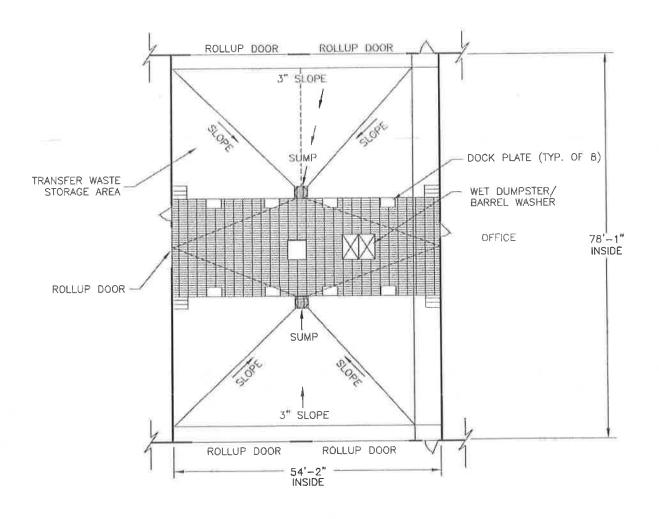
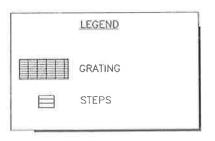






FIGURE 5.6-4 RETURN/FILL SHELTER SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA





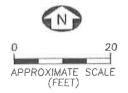
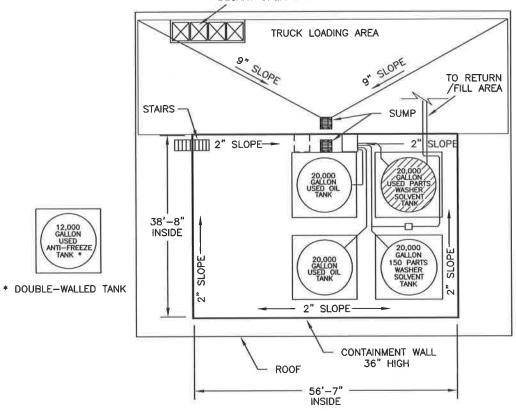




FIGURE 5.6-5 TANK FARM SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA

USED ANTI-FREEZE DECANT OPERATION











CO CSA Inspection

Form Code: 28

Compliance Header Inspector Name Area of Inspection Inspection Date and Time **CO CSA Inspection Instructions** Note condition of inspection items. If item does not apply to an area, mark N/A. All unsatisfactory findings must be explained below. Include any repairs, changes or other remedial actions required or performed. CO CSA Inspection Items Container Placement and Stacking - Check for evidence of failure (e.g., containers on pallets, pallets too high, unstable, other). Sealing of Containers - Check for evidence of failure (e.g., containers not closed or sealed, open). Labeling of Containers - Check for evidence of failure (e.g., no label, improper label, content, other). Container Integrity - Check for evidence of failure (e.g., condition, bulging, leaks, rust, corrosion, other). Pallets - Check for evidence of failure (e.g., broken, loose, condition). Doors - Check for evidence of failure (e.g., indoor area, broken or not working as intended). Base/ Foundation/ Roof - Check for evidence of failure (e.g., cracked, gaps, other). Berms/ Racks - Check for evidence of failure (e.g., cracks, gaps, broken, other).

Debris and Refuse - Check for evidence of failure (e.g., proper storage, location, container type, other).	
Exit Signs - Check for evidence of failure (e.g. missing, lamps, battery backup, other).	
Aisle Space - Check for evidence of failure (e.g., minimum 2 ft required, other).	
Containment Area - Check for evidence of failure (e.g., secondary containment, curbing, floor, cracks, deterioration, ponding or wet spots, other).	
Sumps - Check for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, other).	
Loading/ Unloading Areas - Check condition of area (e.g., available equipment, spill response, containment, pad condition, valve access box, ponding or wet spots, other).	
Communication and Alarm System - Check for evidence of failure (e.g., test function, siren, strobe, other).	
Storage Capacity - Check for acceptable limit (e.g., area or permit retrictions, type restriction, volume limit, other).	
Bonding and Grounding - Check for evidence of failure (e.g., loose, broken, corrosion or deterioration, other).	
Pumps - Check for evidence of failure (e.g., deterioration or broken, leaks, other).	
Inventory Age - Check for acceptable limit (e.g., within area limits, permit restrictions, other).	
Satellite Accumulation Containers - Check for condition and appropriate for area (e.g., filter/basket, solids, label and marking, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	

Inspection Overall Assessment				
inspection Overali Assessment				



CO Safety Security Inspection

Form Code: 29

Compliance Header **Inspector Name** Area of Inspection Inspection Date and Time CO Safety Security Inspection Instructions Note condition of inspection items. If item does not apply to an area, mark N/A. All unsatisfactory findings must be explained below. Include any repairs, changes or other remedial actions required or performed. CO Safety Security Inspection Items Perimeter Fences - Check for evidence of failure (e.g., broken ties, corrosion, holes, distortion, other). Gates/External Warehouse Doors - Check for evidence of failure (e.g., locking mechanism, broken ties, corrosion, holes, distortion, direct access doors working properly, other). Warning Signs - Check for evidence of failure (e.g., missing, faded, other). Exit Signs - Check for evidence of failure (e.g., missing sign, illumination, lamp bulbs, batterv backup, other). Exits/Firelanes/Evacuation Routes - Check that all routes are clear or unobstucted. Lighting System - Check for evidence of failure (e.g. expired lamps, effectiveness, location, other). Emergency Lighting System - Check for evidence of failure (e.g., expired lamps, battery backup, effectiveness, other). Accessibility of Safety Equipment/Protective Gear - Check for evidence of availability (e.g.,

hardhats, faceshields, goggles, safety glasses, boots, gloves, aprons, uniforms, duct tape, absorbents, other).	
Adequate Supply of Safety Equipment/Protective Gear - Check for evidence of availability (e.g., cleanliness, inventory available, other).	
Condition of Safety Equipment - Check for evidence of failure (e.g., review PPE for damage or excessive wear, other).	
Breathing Apparatus Accessibility - Check for evidence of availability (e.g. SCBA respirators, equipment, other).	-
Breathing Apparatus Adequate Supply/Full Charge - Check for evidence of availability (e.g., SCBA tanks, charged, other).	
Breathing Apparatus Condition - Check for evidence of failure (e.g., SCBA damage, other).	
First Aid Kits - Check for evidence of availability (e.g., adequate inventory, other).	
Bloodborne Pathogen Kits - Check for evidence of availability (e.g., adequate inventory, other).	
Emergency Eyewashes - Check for evidence of failure (e.g., disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other).	
Emergency Showers - Check for evidence of failure (e.g., disconnected or malfunctioning valves, inadequate pressure, inaccessible, leaking, other).	
Internal/External Communication - Check for evidence of failure (e.g., inadequate supply of phones or radios, malfunctioning intercom, telephones not working properly, emergency alarm does not work, phone moved from proper location, other).	
Fire Extinguishers - Check for evidence of failure (e.g., overdue inspection, not charged,	

inaccessible, other).	
Absorbent Supply - Check for evidence of availability (e.g., adequate inventory, other).	
Recovery Drum Supply - Check for evidence of availability (e.g., adequate inventory, other).	
Respirators and Cartridges - Check for evidence of availability (e.g., adequate APR inventory, other).	
Fire Suppression System Accessibility - Check for evidence of failure (e.g., monitors, pull stations, alarms, other).	
Fire Suppression System Operable - Check for evidence of failure (e.g., test, other).	
Water Lines/Hydrants - Check for evidence of failure (e.g., blocked, broken, other).	
Alarm Systems - Check for evidence of failure (e.g., test, other).	
Fire Blankets - Check for evidence of availability (e.g., adequate inventory, other).	
Strainer on Fire Suppression System - Check for evidence of failure (e.g., functioning as intended, other).	
Surveillance System/Guard Service - Check for evidence of failure (e.g., equipment or service provided and functioning properly, other).	o o
Supplied Air Delivery System and Reserve - Check for evidence of failure (e.g., system operational, epuipment functioning, other).	
Decontamination Equipment/Spill Clean-up Equipment - Check for evidence of availability (e.g., adequate supply of shovels, mops, cleaning solvents, available inventory, other).	
Portable Sump Pumps - Check for evidence of availability (e.g., adequate inventory, functioning properly, other).	
Gasoline Pumps - Check for evidence of failure (e.g., broken parts, leaks, other).	

Loud Speakers - Check for evidence of failure (e.g., test, other).	
Chocked Wheels on Parked Vehicles - Check for evidence of failure (e.g., chocks not used, missing, deteriorated, other).	
Cylinders Secure - Check for evidence of failure (e.g., properly stored, secured, chained, other).	
Ventilation Operable - Check for evidence of failure (e.g., system working as intended, other).	
Fall Protection - Check for evidence of availability (e.g., adequate inventory, integrity of equipment, other).	
Electrical Boxes - Check for evidence of failure (e.g., closed, not blocked, marked properly, other).	
Emergency Contact Info Posted - Check for evidence of availability (e.g., up-to-date postings, location requirement, other).	
Hearing Protection Available - Check for evidence of availability (e.g., type appropriate per location, other).	
Housekeeping - Check for evidence of failure (e.g., blocked egress, proper storage, procedure followed, other).	
Portable Compressor - Check for evidence of availability (e.g., adequate inventory, functioning properly, other).	
Lime Supply - Check for evidence of availability (e.g., adequate inventory, other).	
QC Lab Hood - Check for evidence of failure (e.g., functioning properly, other).	
Rolloff Parking Area - Check for evidence of failure (e.g., housekeeping, staging, other).	
Dumpster/Outside Containers - Check for evidence of failure (e.g., housekeeping, condition, appropriate use and storage, other)	

Stormwater Collection System - Check for evidence of failure (e.g., functioning properly, damaged equipment, integrity, other).	
Rally Point - Check for evidence of failure (e.g., location identified, communication, other).	
Visitor Log - Check for evidence of failure (e.g., available, communication, proper use, other).	
Contingency Plan - Check for evidence of failure (e.g., available, up-to-date, communication, other).	
Wind Instrument/Wind Sock - Check for evidence of failure (e.g., operational, functioning properly, not broken, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	



CO Branch Generated Hazardous Waste Container Inspection Log

Form Code: 1423

Compliance Header	
Inspector Name	
Area of Inspection	
Inspection Date and Time	
CO Branch Generated Hazardous Waste Inspec	tion Instruction
Note the condition of inspection items. Note the reparator hazardous waste containers ony (10-day transfer apply). All unsatisfactoryf findings must be explain other remedial actions required or performed.	containers collected from customers do not
CO Branch Generated Hazardous Waste Contain	ner Inspection Log Items
Number of branch generated hazardous waste containers in storage area:	
Capacity of branch generated hazardous waste containers in storage area (16, 30, 55, 85, etc.):	
Notation of observations made (acceptable/not acceptable condition, correct labels, leaking, etc.)	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Figure 8.4-1 (page #1) Safety-Kleen Sanford, Florida

Daily Inspection of Warehouse Container Storage Area – Maximum Permitted Volume 6,912 gallons Inspectors Name/Title:

	Monday	Tuesday	Wednesday	Thursday	Frida	ny
5	DATE (MM/DD/YY)			*	-	 0
	DATE (WIND DO) TT)					
	TIME	-	-	-		
	Volume in containers	Monday	Tuesday	Wednesday	Thursday	Friday
Branch	Generated – 55 gallon					
Oil/Vac	samples – 55 gallon			×		
Used Oi	l Filters – 30 gallon					
Used Oi	l Filters – 55 gallon					
Immers	ion Cleaner					
Paint W	aste – 55 gallon					
Paint W	aste – 30 gallon					
Paint W	aste – 16 gallon					
Paint W	aste – 5 gallon					
Dry Clea	an – 16 gallon					
Dry Clea	an – 30 gallon					
Dry Clea	an Filters – 16 gallon					
Dry Clea	an Filters – 30 gallon					
Oil Filte	rs – 55 gallon					
Used Ar	ntifreeze – 55 gallon					
Used Sc	lvent					
Silver re	ecovery – 5 gallon					
Silver re	ecovery – 20 gallon					
	VOLUME (GALLONS)					
	es – 5 gallon					
	es – 16 gallon					
	cent bulbs – 4 ft.					
	cent bulbs – 8 ft.					
	y Devices					
	Transfer Storage Areas		_!			
FRS – 5						
FRS – 1						
FRS - 3						
FRS - 5.						
FRS - 8						
	50 gallon tote					
-	er bag/Gaylord					

Figure 8.4-1 (page #2)

Waste Volume: If "N", what i	A N is the reason:	A N	A N	A N	A N
Condition of Contain	ners: A N appropriate proble		A N se lids, incorrect or ir		A Nabels, rust,
Stacking/Placement					
Stacking/Flacement	A N	A N	AN	A N	A N
If "N" circle a			Part B floor plan, co	ntainers not	on pallets,
					•
(Any materia within 24 ho	urs of being discov	ered) If "N" circle	A N ry containment must e appropriate problen eaks inadequate seala	n: ponding/	wet spots,
Loading/Unl	oading Areas:				
16 ((2))	A N	A N	A N	A N	A N
			pration, ponding/wet		
Acceptable" (N):					

A = Acceptable N = Not Acceptable

Figure 5.2-1

Safety-Kleen Sanford, Florida – Weekly Inspection of Safety & Emergency Equipment

Inspectors Name/Title:

DATE (MM/DD/YY) TIME SAFETY & EMERGENCY EQUIPMENT Fire Extinguishers: If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids Other:	Monday	Tuesday	Wednesday	Thursday		Friday
SAFETY & EMERGENCY EQUIPMENT Fire Extinguishers: If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: A N If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks A N If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids						
SAFETY & EMERGENCY EQUIPMENT Fire Extinguishers: If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: A N If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: A N If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks A N If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids						
SAFETY & EMERGENCY EQUIPMENT Fire Extinguishers: If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	DATE (MM/DD/YY)	A				
Fire Extinguishers: If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: A N If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: A N If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: A N If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	TIME					
If "N" circle appropriate problem: Overdue inspection, inadequately charged, inaccessible, other: Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	SAFETY & EMERGEN	ICY EQUIPMENT		×		
Eyewash and Shower: If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other: First Aid Kit: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: A N If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks A N If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Fire Extinguishers:				Α	N
If "N" circle appropriate problem: disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, other:	If "N" circle ap	propriate problem: Ove	rdue inspection, inadequate	ly charged, inaccessible, c	ther:	
malfunctioning drain, leaking, other: First Aid Kit: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: A N If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks A N If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Eyewash and Shower:				Α	N
First Aid Kit: If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: disco	onnected or malfunctioning	valves, inadequate pressu	re, inacc	essible,
If "N" circle appropriate problem: inadequate inventory, other: Spill Cleanup Equipment: A N If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: A N If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks A N If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	malfunctioning	g drain, leaking, other:	*****			
Spill Cleanup Equipment: If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	First Aid Kit:				Α	N
If "N" circle appropriate problem: inadequate supply of sorbent, towels and/or clay, inadequate supply of shown Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: inad	equate inventory, other:			
Mops, empty drums, wet/dry vacuum, other: Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Spill Cleanup Equipment	t:			Α	N
Personal Protective Equipment: If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: inad	equate supply of sorbent, to	wels and/or clay, inadequ	iate supp	ly of shovels,
If "N" circle appropriate problem: inadequate supply of aprons, gloves, glasses, respirators, other: Communication Devices: A N If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Mops, empty o	drums, wet/dry vacuum,	other:			
If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other:	Personal Protective Equ	ipment:			Α	N
If "N" circle appropriate problem: inadequate supply of telephones, malfunctioning telephone(s), malfunction Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: inad	equate supply of aprons, glo	ves, glasses, respirators, o	other:	
Intercom, emergency alarm does not work, telephones are not located where needed, other: SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Communication Devices	:			Α	N
SECURITY DEVICES Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: inad	equate supply of telephones	s, malfunctioning telephor	ne(s), ma	lfunctioning
Gates and Locks If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Intercom, eme	ergency alarm does not v	vork, telephones are not loc	ated where needed, other	r: <u>-</u>	
If "N" circle appropriate problem: sticking, corrosion, lack or warning signs, fit, other: A N If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	SECURITY DEVICES					
Fence If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Gates and Locks				Α	N
If "N" circle appropriate problem: broken ties, corrosion, holes, distortion, other: MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: stick	ing, corrosion, lack or warni	ng signs, fit, other:		
MISCELLANEOUS EQUIPMENT Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Fence				Α	N
Dry Dumpster: A N If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	If "N" circle ap	propriate problem: brok	en ties, corrosion, holes, dis	tortion, other:		
If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	MISCELLANEOUS E	QUIPMENT				
If "N" circle appropriate problem: rust, corrosion, split seams, distorting, deterioration, excess debris, liquids	Dry Dumpster:				Α	N
Other		propriate problem: rust,	, corrosion, split seams, dista	orting, deterioration, exce	ss debris	, liquids in unit
Other.						
Observations, comments, date and specific nature of repairs or any items indicated as "NOT ACCEPTABLE"					TABLE"	

A = Acceptable N = Not Acceptable: Circle appropriate item for each line above and note specific problem until issue is fixed.

TABLE 5.1-1 PERMITTED AND TRANSFER WASTES

Waste Type	Process Code(s)	Estimated Annual Amounts (Tons)	Waste Codes
Spent Parts Washer Solvent	S01* S02**	374	D001 and D-codes listed in note below
Branch-Generated Liquids/Solids (Debris)	S01*	9	D001 and D-codes listed in note below; F002, F003, F005
Dumpster Sediment	S01*	Included above	D001 and D-codes listed in note below
Tank Bottoms	S01*	Included above	D001 and D-codes listed in note below
Used Immersion cleaner (IC 699)	S01*	6	D-codes listed in note below
Dry Cleaning Waste (Perchloroethylene)	S01*	7	F002 and D-codes listed in note below
Dry Cleaning Waste (Non-perchloroethylene)	S01*	Included above	D-codes listed in note below
Paint Wastes	S01*	18	D001, F003, F005 and D-codes listed in note below
Retain Samples From Used Oil Operations	S01*	3	D008, D018, D039, D040
Spent Aerosol Cans	S01*	< 1	D001, D035
Fluid Recovery Service (FRS)	S01***	100	Transfer wastes-waste codes assigned by generator
Aqueous Brake Cleaner	S01***	14	Transfer waste-waste codes assigned by generator
Mercury-Containing Lamps/Devices	N/A***	Less than 2.2	N/A-handled as non- hazardous transfer wastes

NOTES:

 $\begin{array}{l} \text{D-Codes: D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043} \end{array}$

- * This waste will be stored in containers in the container storage area. The maximum capacity in the container storage area for hazardous waste is 6,912 gallons.
- ** The spent parts washer solvent storage tank has a capacity of 20,000 gallons and may be filled up to 19,000 gallons.
- *** This waste will be held for transfer in containers in the transfer area and designated mercury bulb storage area.

TABLE 5.2-1
INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspection
Safety Equipment	Fire Extinguishers	Overdue inspection Inadequate charge Inaccessible	Weekly
	Eyewash	Disconnected/malfunctioning valves Pressure Inaccessible	Weekly
	First-Aid Kit	Inadequate inventory	Weekly
	Spill Cleanup Equip	Inadequate supply	Weekly
::	PPE PPE	Inadequate supply	Weekly
Security Equipment	Gates and Locks	Sticking, corrosion, lack of warning signs	Weekly
	Fence	Broken ties, corrosion, holes	Weekly
Storage Tanks	Volume in Tank	Never more than 95% full	Daily
	Tank Exterior	Rusty, loose anchoring, grounding, wet spots, leaks, discoloration	Daily
	High Level Alarms	Malfunctioning siren/light	Daily
	Volume Gauges	Disconnected/ sticking, condensation	Daily
Secondary Containment	Bottom and Walls	Cracks, debris, ponding, wet spots, stains, deterioration, displacement, leaks	Daily
	Rigid Piping and Supports	Distortion, corrosion, paint failures, leaks	Daily
Transfer Pumps and	Pump Seals	Leaks	Daily
Hoses	Motors	Overheating	Daily
	Fittings	Leaks	Daily
	Valves	Leaks, sticking	Daily
	Hose Connections and Fittings	Cracks, loose, leaks	Daily
	Hose Body	Crushed, cracked, thin spots, leaks	Daily

TABLE 5.2-1 INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of
			Inspection
Return/Fill Station	Wet Dumpster	Excess sediment build-up, leaks, rust, split seams, distortion, deterioration, excess debris	Daily
Container Storage Area	Total Volume in Storage Condition of Drums	Exceeds permitted limit Missing or loose lids, labels missing, incomplete or incorrect, rust, leaks, distortion	Daily Daily
9	Stacking/Placement/Aisle Space	Containers not on pallets, unstable stacks, inadequate aisle space	Daily
Secondary Containment	Curbing, Floor and Sump	Ponding/wet spots, deterioration, displacement, leaks, other	Daily

TABLE 5.6-1
EMERGENCY RESPONSE EQUIPMENT

Description	Type/Capacity	Location	Quantity
Fire Extinguisher	ABC (10 lb)	Office	4
_		Warehouse	4
		Return/Fill	4
		Tank Farm	2
Eyewash	Fountain	Warehouse	1
3		Return/Fill Area	1
		Tank Farm	1
First-Aid	OSHA Compliant	Warehouse/Office	2
Telephones	Standard	Office	Min. 6
Telephones	Standard	Warehouse	1
Intercom	Explosion Proof	All Buildings	N/A
Gloves	Rubber	Emergency Equip Area	Min. 3
Boot covers	Rubber	Emergency Equip Area	Min. 3
Protective Clothing	Apron	Emergency Equip Area	Min. 2
Eye Protection	Goggles/Safety Glasses	Emergency Equip Area	Min. 3
Sorbent Material	Oil Absorbing	Emergency Equip Area	Min. 1 bag
Shovel	Standard	Emergency Equip Area	Min. 1
Mop and Bucket	Standard	Emergency Equip Area	Min. 1
Respirator	Air Purifiers	Emergency Equip Area	Min. 2
Pump	Hand-held, Electric	Return/Fill Area	Min. 1
Wet/Dry Vacuum	Portable, Electric	Emergency Equip Area	1
Empty Drums for Overpack	30, 55, 85 gal.	Container Storage Area	4
Fire Alarms	Manual-pull	Office/Warehouse/Return/Fill	5
Emergency Alarm	Manual	Return/Fill Area/Back Dock	3
High Level Alarms	Automatic	Tank Farm	1

TABLE 5.8-1
DESCRIPTION AND USES OF EMERGENCY EQUIPMENT

Item	Location	Use/Description	
Gloves	Warehouse cage/Emergency	To be used when handling the solvents and chemical	
	Equipment Area	containers.	
Safety Glasses or	Warehouse cage/Emergency	To be worn when loading or unloading solvent.	
Face Mask	Equipment Area		
Plastic Aprons	Warehouse cage/Emergency	For situations where a solvent may get on the	
•	Equipment Area	workers clothing.	
Eyewash Stand	Container storage area	The workers should operate the stand and	
·	return/fill/area/tank farm	Become familiar with its operation	
Showers	Return/fill/container storage area/tank farm	These are used for emergency exposure situations.	
Fire Extinguisher	Office/Return	An ABC extinguisher is a universal system used on paper,	
	Fill/Warehouse/Tank Farm	wood, and electrical, as well as solvent fires. The	
		extinguishers must be full and carry an inspection tag.	
Absorbent Material	Loading/Unloading	An adequate supply will be on hand to handle small spills. A	
	Area/Warehouse	50 lb bag will also be kept in the warehouse to remediate and	
		prevent spread of large spills	
Portable Pumps	Warehouse	For use in picking up liquid spills in the container	
Wet/Dry Vac		containment area, or other paved areas, and transfer materials	
		associated with spills	
Recovery	Warehouse	Emergency storage of spilled product, cleaning fluids, or	
Containers		other materials associated with spills	
Plastic	Warehouse	Used for containment of decontamination zones	
Duct Tape	Warehouse	Taping of protective clothing, plastic, and other uses	
First-aid	Office/Warehouse	Minor first-aid needs and health problems	
Shovels/Mops	Warehouse	Used to collect spills and residue	
Communication	Facility Wide	Phones with intercom systems in office/warehouse for	
Equip		internal and external communications	
Decon. Equip.	Warehouse	2 brushes, box of detergent, rags, available for decon of clear	
		up equip.	
Fire Alarm	Office/Warehouse/Return Fill	To be pulled in the event of a fire at the facility that require outside assistance	
Emergency Alarm Return/Fill Station/Back		To notify personnel in the office of an emergency situation in	
	loading dock	the back of the facility	
High-level Alarm	Tank Farm	Automatic alarm that will sound in the event tanks reach a	
		certain level in order to prevent over-filling	

PERSONNEL TRAINING

This section of the permit application describes Safety-Kleen's training program. All position descriptions referenced may not be present at this facility. Training plan outlines, job descriptions, training content, frequency and techniques are described as well as the implementation of the training program. The information presented in this section is a representative example of employee training at Safety-Kleen. Variations in individual training may occur.

The purpose of Safety-Kleen's training program is to familiarize employees with environmental regulations, records, and emergency procedures so they will perform their activities in the safest and most efficient manner possible.

DESCRIPTION OF TRAINING PROGRAM

Each employee is trained to operate and maintain the service center safely, and to understand hazards unique to job assignments. New managers must complete a formal introductory training program before starting their jobs, with annual review and update thereafter. New Sales and Service Representatives and all other hazardous waste employees must undergo a combination of classroom and on-the-job training prior to working with hazardous waste. Personnel involved in direct handling of hazardous waste do not work unsupervised until they have completed the entire initial hazardous waste training course.

Outline of Training Program

An outline of the training program given initially to employees who manage or handle Hazardous Waste at the Branch is presented in Table 6.1-1.

Job Title/Job Description

Job descriptions for employees who would be expected to manage or handle hazardous wastes are provided in Tables 6.1-2 through 6.1-13. Table 6.1-14 includes initial and continuing training topics that branch personnel receive.

Training Content, Frequency, and Techniques

Employee training is accomplished using classroom, online, videotape, written, and on-the-job methods. All new employees whose responsibilities require 24-Hour Hazardous Waste Operations and Emergency Response (Hazwoper) training will receive at least five days of instruction at the Safety-Kleen Training Center. This training program provides a consistent and quality hazardous waste operations training program.

The training that a new operations employee will receive is divided into two parts.

- Two weeks of employment will be spent at the Safety-Kleen Training Center.
 The new employee will receive a company orientation, including a review of company benefits, and hazardous waste operations training.
- The second part of new employee training is site specific training. When the new employee returns to the Branch, qualified individuals delegated by Branch management will complete facility specific training. This will include such things as permit requirements, emergency contingency plan training, location of emergency equipment, etc.

The job tasks a person performs will dictate the type of instruction required. Courses taught at the Safety-Kleen Training Center will include a company and benefit orientation, 24-hour Hazwoper training, Hazardous Materials Transportation Skills (HMTS) training, and Driver Safety training, as well as job specific training.

The following presents the specific training requirements for new Safety-Kleen employees who will manage or handle hazardous waste.

Training of New Branch General Managers: New Branch Managers are trained for several weeks before they begin their new positions. This training is given on-the-job. During this training, the new manager reviews environmental records and learns the recordkeeping requirements. These records include: manifests, personnel records, training records, service center inspection records, and spill reports. At least eight hours of this initial training consists of an introduction to environmental regulations, and a review of the Part B, including the Waste Analysis Plan, Preparedness and Prevention Plan, Contingency Plan, Training Plan, and Closure Plan.

Training of New Customer Service Manager: The Customer Service Manager is responsible for administrative operations at the Branch. Training is on location in the form of periodic training topics. This training includes an introduction to environmental regulations (including the Resource Conservation and Recovery Act), health and safety issues, emergency response and inventory (including waste) reconciliation methods. Additional time is spent reviewing past environmental compliance at the facility. Also, while being trained at the Branch where they will be stationed, a new Customer Service Manager will review environmental records and learn the recordkeeping and inspection requirements. These records include: manifests, personnel records, training records, service center inspection records, and spill reports.

Training of New Secretaries: Secretaries are trained in the proper recordkeeping procedures as soon as they begin working for Safety-Kleen. While they are not usually responsible for preparing the documentation, they must check it for accuracy and completeness and then process or file it as required. Additional training is overseen by Branch Manager and is done within six months of starting. This training is often presented in periodic training topics on emergency response, shipping documents (including manifests), drum labels, and other safety and environmental compliance issues.

<u>Training of New Sales and Service Representatives, Market Sales Specialists:</u> These personnel are trained on-the-job for two weeks during which they are introduced to manifests, service center inspection records, and training records. Additional training is in the form of periodic training topics and a review of the Contingency Plan.

<u>Training of New Material Handlers:</u> A Material Handler is trained to maintain the service center and assist the other Branch employees in their tasks. The Material Handler may be a designee to perform Branch inspections and must be trained by the Branch Manager.

Annual Training: On an annual basis, employees are trained using the programs prepared and updated annually by the EHS and Training Departments which contain the topics in Table 6.1-14. This training also includes updates on environmental regulations, review of the Contingency Plan and a review of RCRA inspection criteria. This review is in the form of classroom instruction, videotapes, and a review and discussion of the storage service center permit/application. In addition, periodic sessions on changes in environmental regulations are issued by the EHS Department and must be attended by all Branch personnel.

Training Director

The training is directed by Safety-Kleen's Training and Development and EHS Departments, which operate out of the Corporate Office in Richardson, Texas. Each Environmental Health and Safety Manager who works in this department is responsible for compliance of the service centers in a given geographic area of the country. The EHS Department, in coordination with the facility, must:

 Provide a training program which addresses the requirements of environmental regulations and corporate policy.

- Notify the proper authorities, oversee remedial actions, and submit a written report to the state after an emergency situation has occurred;
- Assure that environmental permits are submitted and updated as required;
- Manage any environmental compliance issues which exceed the resources available at the service center level; and
- Participate in training new Branch employees and conducting Annual Refresher Training.

Qualifications for individual staff members of the EHS Department who conduct training at the Branch are available upon request.

Relevance of Training to Job Position

Each employee is trained to operate and maintain the service center safely and to understand hazards unique to their job assignment. Safety-Kleen's training programs are designed to give employees appropriate instruction regarding the hazardous waste management procedures they will encounter in performing their respective duties. Since the handling of hazardous materials is a large part of the operations of the service center, all employees are given training in environmental regulations, transportation regulations, the Preparedness and Prevention Plan, and the Contingency Plan.

Training for Hazardous Waste Management

As described previously, all employees are trained in the aspects of hazardous waste management which are relevant to their position. This includes job-specific hazards and necessary precautions, emergency response, and proper recordkeeping. This training is given initially and updated annually.

Training for Contingency Plan Implementation

All employees are trained in Contingency Plan implementation, through initial training yearly refresher courses. Employees are trained on the contents of the Contingency Plan as well as criteria for implementation.

Training for Emergency Response

All employees are trained in emergency response procedures through both initial training and yearly refresher courses. The emergency training involves spill and fire prevention as well as remedial action procedures. Employees are also trained to recognize when evacuation and outside assistance may be necessary.

Training for Handling Mercury-Containing Lamps and Devices

As a registered transporter and storage facility for mercury-containing lamps and devices destined for recycling, the Branch has certified that employees handling spent lamps or devices are trained in the applicable proper handling and emergency cleanup and containment procedures, and that these emergency procedures will be kept at the Branch for inspection upon request by the FDEP.

Personnel Training Records

All personnel training is documented and the documentation is kept on file at the Branch until closure for active employees, and three years for employees that have terminated their employment with Safety-Kleen. Documentation includes the training received, employee name, and the date of training.

OUTLINE OF TRAINING TOPICS

	Topic	Course	
Monday	Welcome / Introductions	Orientation	
	Overview/History/Products/Locations	Orientation	
	Policies/Benefits	Orientation	
	Orientation Activity and Quiz	Orientation	
	Blood Borne Pathogens	24-Hour Hazwoper	
	Regulatory Compliance	24-Hour Hazwoper	
	Hazard Recognition	24-Hour Hazwoper	
	Hazard Communication/WHMIS	24-Hour Hazwoper	
Tuesday	Topic		
	Hazard Communication/WHMIS	24-Hour Hazwoper	
	Test 1	24-Hour Hazwoper	
	Personal Protective Equipment (PPE)	24-Hour Hazwoper	
	Decontamination (Decon)	24-Hour Hazwoper	
	PPE/Decon Practical	24-Hour Hazwoper	
	Respiratory Protection	24-Hour Hazwoper	
	Respiratory Protection Practical	24-Hour Hazwoper	
	Toxicology	24-Hour Hazwoper	
Wednesday	Topic		
,, , , , , , , , , , , , , , , , , , , ,	Toxicology	24-Hour Hazwoper	
	Test 2	24-Hour Hazwoper	
	Drum Handling	24-Hour Hazwoper	
	Container Handling Practical	24-Hour Hazwoper	
	Exposure Monitoring	24-Hour Hazwoper	
	Medical Surveillance	24-Hour Hazwoper	
	Hearing Conservation	24-Hour Hazwoper	
	Ergononmics	24-Hour Hazwoper	
	Fire Protection	24-Hour Hazwoper	
	Confined Space/Lockout-Tagout	24-Hour Hazwoper	
	Fall Protection	24-Hour Hazwoper	
	Electrical Safety	24-Hour Hazwoper	
Thursday	Topic		
Thursday	Site Health & Safety Plans	24-Hour Hazwoper	
	Test 3	24-Hour Hazwoper	
	HMTS Regulations/Trans. Cont. Plan	Hazardous Materials	
	Hazard Classes	Transportation Skills	
	Shipping Papers	Ψ	
	Labeling & Marking	1	
	Placarding/Segregation	j.	
	HMTS Test	HMTS	
	THILD ADD		
Friday	Topic		
1 1 Iuay	DDC Strategies	Driver Skills	
	Professional Drivers Characteristics	ZILITA GAMAA	

Friday		
	Lane Management	Driver Skills
	Driving Conditions	Driver Skills
	Backing/Conclusion/Trans. Cont. Plan	Driver Skills

JOB DESCRIPTION BRANCH GENERAL MANAGER

Position Title: Branch General Manager (BGM)

Reporting Relationship: Reports to District Manager

Qualifications:

• College degree or equivalent sales/management experience.

- Must have five (5) years of progressively responsible branch sales and management experience.
- Must possess leadership abilities, and have the capacity to interface effectively with Branch, District, Region, and Marketing personnel.

Position Overview: Overall responsibility for Branch operations including, but not limited to, growth, profit and loss, asset management, employee oversight. Exhibit and maintain knowledge of hazardous waste regulations in addition to all Safety-Kleen policies and procedures.

- Profit and Loss
- Customer retention
- Employee turnover
- Environmental, Health & Safety compliance
- Personnel management with HR assistance
- Employee recruiting and training
- Fleet management
- Community relations
- Ethical business practices
- Distribute and manage sales reports
- Monitor sales/service activities

JOB DESCRIPTION LEAD SECRETARY

Position Title: Lead Secretary

Reporting Relationship: Reports to Branch General Manager

Qualifications: Must be a high school graduate with good written and verbal communications

skills, interpersonal skills and computer knowledge.

Position Overview: Lead Secretary must possess the ability to interact efficiently with Branch General Manager, and Customer Service Manager. Directs all paperwork flow and must exhibit a thorough knowledge of Hazardous Waste regulations with regard to responsibilities as well as all Safety-Kleen policies and procedures. Coordinates administrative staff training on all issues, as well as for facility.

- Supervise Branch Secretaries
- Verification of sales and hazardous waste documents
- Ensure proper completion of facility operating log, proper maintenance of accounts receivable, bank deposits, manifests, and other administrative areas
- Assists management in incident response
- Maintain training database
- Coordinate personnel requirements such as DOT physicals, employee physicals, employee start packs, and workers compensation claims, etc.
- Ensures all contractors are signed in to the facility record
- Provides corrections for annual reports
- Maintains customer information EPA ID numbers, etc.
- Oversees FRS/Lab correspondence
- Participates in hiring and training of Administrative staff
- Maintain branch level Customer Service/Collection procedures
- Perform other duties as assigned by BGM

JOB DESCRIPTION BRANCH SECRETARY

Position Title: Branch Secretary

Reporting Relationship: Reports to Lead Secretary

Qualifications: Must be a high school graduate with good written and verbal communication

skills, interpersonal skills and computer knowledge.

Position Overview: Branch Secretary must possess the ability to interact with effectively with Lead Secretary, Branch Manager, and Customer Service Manager. Directs paperwork flow and must exhibit a thorough knowledge of Hazardous Waste regulations with regard to responsibilities as well as Safety-Kleen policies and procedures.

- Verify sales and hazardous waste documents
- Maintenance of accounts receivable, bank deposits, manifests, and other key administrative areas
- Corrections for annual reports
- Oversees FRS/Lab correspondence
- Maintain Branch level Customer Service/Collection procedures
- Perform other duties as assigned by management

JOB DESCRIPTION LEAD MATERIAL HANDLER

Position Title: Lead Material Handler

Reporting Relationship: Reports to Branch General Manager

Qualifications: High school graduate, and the ability to pass CDL and other requirements.

Position Overview: Responsible for monthly inventory, warehouse housekeeping, operation of Return/Fill. Exhibit and maintain knowledge of hazardous waste regulations (labeling/marking of containers, required aisle spacing, facility operating inspections, and waste shipments).

- Oversee operation of Return/Fill
- Assist in training of Material Handlers
- Act as escort for government inspectors in the absence of Branch General Manager,
 Customer Service Manager, or Environmental Manager
- Ensure proper maintenance of facility operating log and compliance with site specific regulatory issues
- May act as emergency coordinator and assist management in incident response
- Monitor contractors working on site
- Oversee facility housekeeping schedule
- Other duties as directed by BGM

JOB DESCRIPTION MATERIAL HANDLER

Position Title: Material Handler

Reporting Relationship: Reports to Lead Material Handler

Qualifications: High school graduate and ability to pass CDL and other requirements.

Position Overview: Takes direction from the Lead Material Handler, and is involved in operation of the return/fill station, warehouse housekeeping, containerized waste movement within the facility. Exhibit knowledge of hazardous waste regulations regarding (labeling/marking of containers, ensuring required aisle spacing in storage areas, assisting in staging waste for outbound shipment).

- Operation of Return/Fill
- Facility housekeeping
- Other duties as directed by Lead Material Handler

JOB DESCRIPTION CUSTOMER SERVICE MANAGER

Position Title: Customer Service Manager

Reporting Relationship: Reports to the Branch General Manager

Qualifications:

• College degree or equivalent sales/management experience

- Must have three (3) years of progressively responsible branch sales/service and management experience
- Must possess leadership abilities, and have the capacity to interface effectively with Branch, and District personnel

Position Overview: Ensure optimum customer service leading to retention and expansion of Branch business. Exhibit and maintain knowledge of hazardous waste regulations.

- Assure Customer satisfaction and retention
- Recruit and train Sales and Service Representatives
- Reduce employee turnover
- Maintain high on time performance
- Preprint and route management
- QA sales and service
- Fleet management
- EHS compliance with all relevant Branch activities

JOB DESCRIPTION SALES AND SERVICE ASSOCIATE

Position Title: Sales and Service Associate

Reporting Relationship: Reports to Branch Customer Service Manager

Qualifications:

High school graduate

- Ability to pass CDL and other requirements
- Ability to interface with customers, and branch personnel

Position Overview: Perform sales and service functions with experienced personnel until ready to assume responsibilities working alone. Exhibit and maintain knowledge of hazardous waste regulations.

- Service equipment at customer locations
- Develop strong customer relations
- Maintain high on time performance
- Installation/Recovery of equipment
- Level one equipment repair
- EHS compliance with all relevant activities
- Other duties as assigned by Branch Customer Service Manager

JOB DESCRIPTION SENIOR SALES AND SERVICE REPRESENTATIVE

Position Title: Senior Sales and Service Representative

Reporting Relationship: Reports to Branch Customer Service Manager

Qualifications:

- High school graduate
- Three (3) years experience as Sales and Service Representative
- Ability to interface with customers and branch personnel

Position Overview: Assist Branch Customer Service Manager to ensure optimum customer service leading to retention and expansion of branch business. Exhibit and maintain knowledge of hazardous waste regulations.

- Assist in recruiting, training and managing Sales and Service Reps
- Service equipment at customers locations
- Develop strong customer relations
- Maintain high branch on time performance
- Maintain low branch DSO
- Installation/Recovery of equipment
- Level one equipment repair
- EHS compliance with all relevant activities
- Other duties as assigned by the Branch Customer Service Manager

JOB DESCRIPTION SALES AND SERVICE REPRESENTATIVE

Position Title: Sales and Service Representative

Reporting Relationship: Reports to Branch Customer Service Manager

Qualifications:

High school graduate

Ability to pass CDL and other requirements

Position Overview: Provide service at a level that meets or exceeds customer expectations while complying with all relevant regulations and Safety-Kleen policies and procedures. Exhibit and maintain knowledge of hazardous waste regulations.

- Service equipment at customer locations
- Develop strong customer relations
- Maintain high branch on time performance
- Maintain low branch DSO
- Installation/Recovery of equipment
- Level one equipment repair
- EHS compliance with all relevant activities
- Other duties as assigned by the Branch Customer Service Manager

JOB DESCRIPTION OIL SALES AND SERVICE REPRESENTATIVE

Position Title: Oil Sales and Service Representative

Reporting Relationship: Reports to Branch Customer Service Manager

Qualifications:

High school graduate

Ability to pass CDL and other requirements

Position Overview: Provide service at a level that meets or exceeds customer expectations and comply with all relevant regulations and Safety-Kleen policies and procedures. Exhibit and maintain knowledge of used oil regulations.

- Develop strong customer relations and solicit new business
- Maintain high branch on time performance
- Maintain low branch DSO
- EHS compliance
- Other duties as assigned by the Branch Customer Service Manager

JOB DESCRIPTION VAC SALES AND SERVICE REPRESENTATIVE

Position Title: Vac Sales and Service Representative

Reporting Relationship: Reports to Branch Customer Service Manager

Qualifications:

High school graduate

• Ability to pass CDL and other requirements

Position Overview: Provide service at a level that meets or exceeds customer expectations and comply with all relevant regulations and Safety-Kleen policies and procedures.

- Develop strong customer relations and solicit new business
- Maintain high branch on time performance
- Maintain low branch DSO
- EHS compliance
- Other duties as assigned by the Branch Customer Service Manager

JOB DESCRIPTION ACCOUNT MANAGER

Position Title: Territory Account Manager

Reporting Relationship: Reports to Branch General Manager & Sales Manager

Qualifications:

- College degree or equivalent sales/management experience
- Proven sales/management ability
- Self motivated individual
- Excellent communication and presentation skills

Position Overview: Manage sales to existing customers and expanding customer base. Exhibit and maintain knowledge of hazardous waste regulations.

- Growth/Quota attainment
- Establish goals and monitor sales activity
- Customer retention/Accounts receivable
- Key account management
- Comply with corporate credit policies
- Gather competitive information
- Communicate with Branch Customer Service Manager to ensure high level of customer satisfaction/retention

CONTINUING TRAINING TOPICS FOR BRANCH EMPLOYEES

- Hazard Communication Safety Training
- Hazard Communication regarding SDSs
- Preventing Injury and Illness
- Hazardous Materials Regulations
- Waste Analysis Plan
- Preparedness, Prevention, and Contingency Plan
- Respirator Fit Testing, and Training
- Generator Requirements
- Hazardous Waste Paperwork Manifests, BOL, Labeling, etc.
- Initial RCRA training & annual updates hazardous waste permit conditions, container and storage tank regulations, used oil training, universal waste training, manifest requirements, recordkeeping, and hazardous waste determinations are included in the initial and annual RCRA training.

A. General

5. WASTE CHARACTERISTICS

Waste analysis requirements mandate that before an owner or operator transfers, treats, stores, or disposes of any hazardous waste, detailed chemical analysis of a representative sample of waste must be obtained. This analysis, at a minimum, must contain all of the information that must be known to transfer, treat, store, or dispose of the waste. The analysis may include data developed under 40 CFR 261 of the regulations and existing published or documented data on the hazardous waste or on hazardous waste generated from similar processes. The Waste Analysis Plan for Safety-Kleen's Sanford, FL Service Center has been developed to meet the requirements described above and as found in 40 CFR 270.14(b) and 264.13.

Permitted/Site Generated Waste Streams

Waste Type	Process Code(s)	Estimated Annual Amounts (Tons)	Waste Codes
Spent Parts Washer Solvent	S01* S02**	374	D001 and D-Codes Listed in Note Below
Branch Generated Liquids/Solids (Debris)	S01*	9	D001 and D-Codes Listed In Note Below; F002, F003, F005
Dumpster Sediment	S01*	Included Above	D001 and D-Codes Listed in Note Below
Tank Bottoms	S01*	Included Above	D001 and D-Codes Listed in Note Below
Used Immersion Cleaner (#699)	S01*	6	D-Codes Listed in Note Below
Dry Cleaning Waste (Perchloroethylene)	S01*	7	F002 and D-Codes Listed in Note Below
Dry Cleaning Waste (Naptha-Based)	S01*	Included above	D001 and D-Codes Listed in Note Below
Paint Wastes	S01*	18	D001, F003, F005 and D- Codes Listed in Note Below
Retain Samples From Used Oil Operations	S01*	3	D008, D018, D039, D040
Spent Aerosol Cans	\$01*	< 1	D001, D035
Fluid Recovery Service (FRS)	S01***	100	Transfer wastes – waste codes assigned by generator
Aqueous Brake Cleaner	S01***	14	Transfer wastes – none, unless assigned by generator
Mercury-Containing Lamps/devices	N/A***	Less than 2.2	N/A – handled as non- hazardous transfer wastes

NOTES:

D-Codes: D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043

- * This waste will be stored in containers in the container storage area. The maximum capacity in the container storage area for hazardous waste is 6,912 gallons.
- ** The spent parts washer solvent storage tank has a capacity of 20,000 gallons and may be filled up to 19,000 gallons.
- ** This waste will be held for transfer in containers in the transfer area(s) and designated mercury bulb storage area.

CHEMICAL AND PHYSICAL ANALYSIS

270.14(b)(2) 264.13(a)

Used materials generated by Safety-Kleen customers are the primary feedstock for the generation of Safety-Kleen recycled solvent products. As a result, quality control of the used materials is necessary to monitor product quality and regulatory consistency. The Sanford facility collects used materials from numerous customers, many of whom are Conditionally Exempt and Small Quantity Generators (CESQGs and SQGs).

Most of the materials collected at the Service Center are managed in a closed-loop system and are collected from companies with a single process (i.e. washing oily parts, dry cleaning, or painting). The composition and quality of these materials are known, and Safety-Kleen's operating experiences have shown that the collected materials rarely deviate from company specifications.

Descriptions of Permitted Waste Streams Wastes Resulting from Solvent-Based Parts Washer Service

Used mineral spirits solvent from parts washer services at Safety-Kleen customers is accumulated in a 20,000 gallon aboveground storage tank via the Return and Fill station (R/F). Containers of used solvent are poured into a drum washer unit at the R/F which in turn empties into the tank. The appropriate waste codes will be based on Safety-Kleen's Annual Recharacterization (AR) study. This waste handling method results in three types of parts washer solvent-based waste:

- 1. Spent Parts Washer Solvent which may include any of Safety-Kleen's mineral spirits products, is removed from the tank by a tanker approximately every 20 working days. For appropriate waste codes, see the Table above on page 1. The Sanford facility will ship used solvent to a permitted Safety-Kleen/Clean Harbors TSDF or other facility appropriately permitted to accept the waste for reclamation. The used mineral spirits solvent removed from the bulk tank is a homogeneous material as no other waste streams are placed in the bulk tank.
- 2. Solvent Tank Bottoms includes sediment and other heavy material that has accumulated at bottom of the tank. Periodically it is necessary to remove this material when the accumulation impacts, or may impact the ability to pump liquid solvent from the bottom outlet of the tank. The frequency of removal of the tank bottoms varies, dependent on the amount of suspended solids in the used solvent that settle during tank storage. Bottoms are typically removed by suction/vacuum truck and transported for offsite disposal. Typically, removal may be required every three-five years. For appropriate waste codes, see the Table above on page 1.

- 3. Branch Generated Liquids/Solids (Debris)/Dumpster Sediment In the course of day-to day operations, the Branch generates waste associated with sampling customers' waste and branch activities. Such wastes may include wipes, gloves, etc. In addition, liquid wastes may be generated as a result of decontaminating sampling equipment. The dumpster sediment chemical composition is analogous to that of the solvent tank bottoms. These containers are stored in the container storage area. The facility ultimately ships these materials to a permitted Safety-Kleen/Clean Harbors TSDF or other permitted facility for disposal. This waste stream is not sampled/analyzed, a "worst case scenario" is assumed. For appropriate waste codes, see the Table above on page 1.
- 4. System One Type Parts Washers (recycling units) These types of parts washers build up oil/sludge in the distillation unit of the machine. This material is not sampled/analyzed as part of SK's annual re-characterization program, and is managed according to the customer/generator waste determination. If a generator is a CESQG SK recommends that they place this material in their used oil, if they are a generator of used oil

Immersion Cleaner (IC) is another type of parts washer solvent. This product is a heavy aromatic naptha, N-methyl-2-pyrrolidinone, dipropylene glycol methyl ether, monoethanolamine and oleic acid, and may contain a maximum of 1 percent chlorinated compounds. Containers of used IC are stored in the container storage area. The Immersion Cleaner remains in the container in which it was originally used until it is received at a permitted SK/Clean Harbors TSDF for disposal. For appropriate waste codes, see the Table above on page 1.

Wastes Resulting from the Dry Cleaner Service

Safety-Kleen manages naptha-based, and perchloroethylene-type of hazardous dry cleaner waste in the permitted areas. This waste can have three forms: bottoms, filters, and separator waters. These wastes are packaged on the customers' premises in containers meeting U.S. DOT specifications. When received at the facility, the perchloroethylene, and naptha-based non-perchloroethylene dry cleaning containers are placed in the container storage area. Dry cleaning wastes remain in the containers received from the customer until received at the designated, permitted Safety-Kleen/Clean Harbors TSDF, or other appropriately permitted facility.

The dry cleaning process may produce three waste streams.

1. Filter Cartridges are generated as waste when they can no longer effectively filter the solvent in the chamber. In addition to the filter materials of construction consisting of steel, paper, clay, and carbon, the used cartridge retains solvent, oil and grease, lint, hair, and soil. Solvent retained in the filter cartridge generally amounts to less than 50 percent of the total cartridge weight. Dry cleaner filters are given the same waste codes as the associated dry cleaner bottoms because both streams are derived from the same source. Designating the same codes for the filters as were used for the bottoms is a conservative approach. A representative filter sample is difficult to obtain because of the make-up of the filter (metal core) and obtaining the sample would involve dismantling of the filter and undue exposure to the dismantler.

2. & 3. Still Bottom Residue and Separator Water are generated after filtration and distillation at the generator to remove the dissolved materials from the used solvent. The dissolved materials (still bottom residues) are in liquid form and consist primarily of solvent, oil, grease, hair, dirt, and water. In some cases, the dry cleaner will separate the water condensate from the still residue. Water condensate, generated during the distillation process, may contain dry cleaning solvent, oil, grease, and dirt as well. The dry cleaning separator water will be given the same waste codes as the associated bottoms with the omission of D007 because chromium is not expected to carry over into the separator water during the distillation process (i.e., the boiling point of chromium is much greater than the operating temperature of the distillation unit).

For appropriate waste codes, see the Table above on page 1.

Wastes Resulting from Paint and Thinner Service

Paint wastes consist Safety-Kleen lacquer thinner and paint residues resulting from cleaning of the paint guns by the generator. There are primarily three waste streams from this service: Paint Gun Cleaner, Clear Choice® Paint Gun Cleaner, and paint waste-other. Safety-Kleen thinners are used during the generation of the first two waste streams.

- 1. Paint Gun Cleaner is a paint gun cleaning lacquer thinner containing a blend of solvents such as acetone, alcohols, ketones, toluene, xylene, and acetate compounds. These have primary waste codes of D001, F003 and F005. These are contaminated with lower levels of waste paint, as the gun cleaning machine is removing it from the paint sprayer during the cleaning operation. Safety-Kleen's core paint waste is typically recycled and fuel blended. Reference the table on page 1 for other applicable waste codes.
- 2. <u>Clear Choice Paint Gun Cleaner</u> is acetone, so the F005 waste code does not apply to this waste stream. Other applicable waste codes are D001 and F003. The two Paint Gun Cleaner streams share the same AR data because the waste streams are similar due to the identical process generating the wastes. Reference the table on page 1 for other applicable waste codes.
- 3. Paint Waste Other consists of the same material as the Paint Gun Cleaner, but has a higher level of paint solids, as this comes from the dumping of left over paint from paint cups and guns when all the paint in a paint gun is not used. During the process creating this waste, typically smaller volumes of thinner are in the waste so these drums are fuel blended or incinerated rather than recycled for their solvent value. The primary waste codes are D001, F003 and F005. Reference the table on page 1 for other applicable waste codes.

The paint wastes described above are collected in containers meeting U.S. DOT specifications. The wastes are containerized by the generator at their place of business. The waste remains in the containers, and is stored in the container storage area, until it is received permitted Safety-Kleen/Clean Harbors TSDF, or other properly permitted facility for disposal.

Site Generated Retain Samples from Used Oil Operations

Used Oil/Oily Water Retain Samples are taken and maintained for every used oil/oily water service SK performs. This is to ensure that we can identify any customers who introduce contaminants (halogenated solvents or PCBs) into our used oil/oily water loads. At the time the retain sample is taken at the customer location, the driver is able to check the material for appearance (used oil mixed with fuels may cause the material to have a thinner/lighter appearance), unusual odors, and viscosity (used oil mixed with fuels would have a noticeably lower viscosity and flow more easily into the sample jar). These retain samples are kept for a minimum of 90 days and then disposed of as hazardous waste. The samples are typically 4-oz. plastic/glass jars. They are manually placed into 55-gallon drums, and properly labeled for disposal. These containers are stored in the container storage area until being sent to a permitted Safety-Kleen/Clean Harbors TSDF, or other properly permitted facility for disposal. Waste codes for this material are found in the table on page 1.

Site Generated Spent Aerosol Cans

Spent Aerosol Cans: From time to time the facility generates spent aerosol cans during operations. These cans are accumulated in a satellite accumulation container (30, or 55 gallon) at the facility. Once this container is full it is moved to the container storage area until being sent to a permitted Safety-Kleen/Clean Harbors TSDF, or other properly permitted facility for disposal. Waste codes for this material are found in the table on page 1.

Used Antifreeze

The spent antifreeze (ethylene glycol) is collected from automobile service stations. All antifreeze collected and managed by Safety-Kleen within Florida is recycled. At the customer's location, Safety-Kleen pumps waste ethylene glycol (antifreeze) into a Safety-Kleen used oil tanker truck. This truck transports the used antifreeze (glycol) to the Sanford branch, for off-loading into an above-ground tank for storage. The material is then shipped to an internal, or third party recycler, to extract the ethylene glycol for additional purification into a pure product and sold on the open market. This procedure is in accordance with FDEP's the Best Management Practices for Managing Used Antifreeze at Vehicle Repair Facilities, dated May 22, 2012. In addition, Safety-Kleen sells its' own private label antifreeze in 55-gallon containers. Customers will then place used antifreeze in these containers to be shipped back to the branch. This material is shipped to SK distribution centers, and then shipped to 3rd party recyclers

Aqueous Brake Cleaner

The Aqueous Brake Cleaner (ABC) is an aqueous, alkaline concentrated cleaner diluted with water (4¾ gallons of water is mixed with ¼-gallon of concentrated aqueous cleaner). The ABC parts cleaner has a 5-gallon reservoir under the cleaning vat that provides the aqueous solution for cleaning. The spent ABC is transported from the customers in 5-gallon suitcase type containers. Spent aqueous brake cleaner that is non-hazardous is sent to a waste water treatment facility for processing. If a customer (generator) assigns any hazardous waste code to the spent ABC, the material is managed as a 10-day transfer waste and sent to an appropriate Safety-Kleen/Clean Harbors TSDF for processing.

Fluid Recovery Services (FRS) 10-Day Transfer Wastes

Fluid Recovery Services (FRS) is a program managed by the Safety-Kleen Branch to collect and transfer various other hazardous wastes to the appropriate Safety-Kleen/Clean Harbors TSDF's for processing. Non-hazardous Containerized Waste Services (CWS) are also performed under this program. FRS wastes that are RCRA hazardous wastes are managed as 10-day transfer wastes. Examples of types of wastes that may be received under this program include:

- Spent hydrocarbon distillates, such as waste fuel, oil, petroleum-naptha, etc.;
- Lubricating oils, hydraulic oils, synthetic oils, and machine oils, used antifreeze;
- Industrial halogenated solvents such as 1,1,1-trichloroethane, tetrachlorotheylene, Freon, and trichloroethane;
- Photographic and x-ray related wastes;
- Paint and lacquer thinners;
- Acids;
- Other hazardous and non-hazardous halogenated and non-halogenated wastes.

Mercury-Containing Lamps and Devices & Batteries

Mercury-containing lamps and devices are another type of waste handled by the Branch. All mercury-containing lamps/devices are managed in accordance with the Standards for Universal Waste Management found in 40 CFR Part 273. As part of its protocol for handling mercury-containing lamps and devices, the Branch provides customers with four-foot and eight-foot boxes which hold up to 39 lamps. The boxes are picked up at customer locations and are stored at the Branch in a designated area within the waste storage area (Figure 8-1). These containers are labeled in accordance with 62-737.400 (5)(b), Florida Administrative Code (FAC). The boxes are periodically shipped to a permitted mercury recovery or reclamation facility.

Safety-Kleen handles all types of batteries with the exception of lithium batteries. All applicable batteries, per 40 CFR Part 273.2 & 273.9, are managed in accordance with the Standards For Universal Waste Management found in 40 CFR Part 273. Batteries not meeting those standards may be managed as 10-day transfer waste.

270.15(b)(1) Waste Compatibility With Containers 264.172

It is Safety-Kleen's standard operating procedure to use containers made of, or lined with, materials that will not react with, and are otherwise compatible with, the hazardous waste to be stored so that the ability of the container to contain the waste is not impaired.

Safety-Kleen manages a limited number of waste streams, most are liquid, and most originate from new products that are supplied to its customers in the original DOT approved drums. Safety-Kleen has evaluated the chemical composition of these products and wastes and has determined that the wastes are compatible with the containers in which they are stored.

Note: None of the permitted waste streams carry the D002 waste code for corrosivity. In most cases where a container is not available from a Safety-Kleen-supplied product, Safety-Kleen supplies the customer with a DOT approved drum for that waste type (e.g. when Safety-Kleen collects Dry Cleaning filters).

The only waste stored in the aboveground storage tank is used parts washer solvent. This material has been analyzed and found to be compatible with the steel tank in which it is stored.

Waste in Piles Wastes on Drip Pads

Safety-Kleen's Sanford facility does not have any of these processes on site. Therefore these sections do not apply.

270.14(b)(3) 264.13(b)-(c)

Waste Analysis Plan

Waste analysis at the Safety-Kleen Sanford Service Center is a three-step process that includes:

- Prescreening of customers
- · Qualitative/visual analysis and
- Quantitative analysis (lab analysis)

Prescreening of Customers

Safety-Kleen performs a customer prescreening for all parts washer and immersion cleaner service customers. The other permitted waste streams (dry cleaning wastes and paint wastes) are generated from facilities where there is typically one process generating hazardous waste and the possibility of cross-contamination from other chemicals or wastes is minimal. These wastes remain in the container they were originally packaged until received at a permitted Safety-Kleen/Clean Harbors TSDF, or other properly permitted disposal facility. These waste containers remain closed from customer to final disposition.

Prior to leasing a SK parts cleaning machine, or placing a Customer Owned Machine (COM) service, the customer's business is reviewed. Where the possibility exists for contamination of the parts cleaner solvent (e.g. pesticide, herbicide, or pharmaceutical operations), operations are reviewed to ensure that the solvent is protected from the sources of contamination. In reviewing a customer's business, the Safety-Kleen Representative provides customers with written and verbal information on use of the equipment. This information will contain at a minimum:

- · Proper usage and management of the unit
- Information on the reasons to not add materials to the unit, and
- · Examples of what not to add to the unit

Qualitative/Visual Analysis

Safety-Kleen conducts qualitative/visual analysis as a part of all parts washer and immersion cleaner services. Qualitative/visual analysis is not conducted on the dry cleaning and paint waste streams as these containers are not opened by the Safety-Kleen service representative and the likelihood of contamination is remote. Safety-Kleen representatives are instructed to visually examine the used solvent (parts washer and immersion cleaner) for each waste pickup when the machines are serviced, noting the quantity, odor, and appearance of the material recovered as follows:

- The quantity of used solvent in the drum When the amount of parts cleaner solvent or immersion cleaner fluid is more than 10% greater than originally supplied, the container will not be accepted. Contingent on the customer's responses to Safety-Kleen's inquiry regarding the customer's operation and handling practices, the solvent is accepted or left with the customer until an analysis is completed to determine its acceptability.
- 2. The odor of the liquid in the container Personnel must never make an effort to "sniff"

the solvent. However, if in the normal course of servicing the customer, the odor of the fluid in the container is noticed to be different from that of parts cleaner solvent or immersion cleaner, the container will not be accepted. Contingent on the customer's responses to Safety-Kleen's inquiry of the customer's operation and handling practices, the solvent is accepted or left with the customer until an analysis is completed to determine its acceptability.

3. The appearance of the liquid in the drum – The used parts cleaner solvents have a normally brown or black appearance. Certain contaminants containing dyes and color pigments (such as transmission fluid, soy-based printers' ink, and water-based paints) may change the color of the used parts cleaner solvent to other colors. Used immersion cleaner should have a dark brown to almost black appearance. Unused immersion cleaner is amber in color. As the solvent is used, the darker it becomes. Therefore, if the spent immersion cleaner does not appear to be amber, brown, or black, the service representative will not accept the container. Safety-Kleen will inquire with the customer regarding operation and handling practices of the material. Based on the response from the customer, Safety-Kleen will either accept the container, or reject until analysis has been completed.

If the material passes the three qualitative/visual analyses shown above the material is noted as having passed the qualitative analysis in our service document (typically a handheld computer printout).

As indicated in each of the qualitative/visual analysis, if the answer to the inquiry to why the test (quantity, odor and appearance) were not acceptable, the material is left behind for further testing. An Account Sales Manager will return to the site to sample the material should the generator request Safety-Kleen to assist in managing the material. The sample will be sent to a third party certified laboratory for testing. A Waste Material Profile Sheet will be completed and once approved the waste will be managed as containerized transfer waste for disposal. At the Service Center, the Safety-Kleen Representative or Material Handler again observes the quantity, odor, and appearance prior to emptying the parts washer solvent into the drum washer unit. If a container with questionable contents is returned to the facility, a sample will be taken and analysis performed. The container will be held at the facility pending completion of analysis. If analysis indicates the waste to be different than what was manifested to the facility, it will be returned to the generator, or managed at the facility in accordance with the generators direction. Records of all sampled and/or rejected wastes will be kept on file at the Sanford branch.

In addition, receipt analysis is performed by the Safety-Kleen Recycle Centers on all inbound bulk solvent waste deliveries. Receipt analysis typically includes a screen for atypical flash point, Polychlorinated Biphenyls (PCBs), and halogenated organics.

Quantitative Analysis (Lab Analysis)

After 50 years of servicing over 250,000 parts washer customers each year, Safety-Kleen has determined that the wastes generated by its customers are relatively homogeneous. The homogeneity of these wastes is evaluated annually through the Safety-Kleen AR process (Quantitative Analysis).

Analytical data from the Annual Re-characterization sampling is subjected to an EPA SW846 approved statistical model (Exhibit C-1). The waste samples analyzed come from a variety of Safety-Kleen facilities across the country and is representative of the facility.

Samples included in the AR process are selected from random customers serviced by Safety-Kleen facilities. Randomness is overseen by the Safety-Kleen Technical Center, which manages the AR program, selecting the month that the samples will be taken. A list of waste streams included in the AR is found below on page 11. The analytical results or the AR are communicated to customers to assist them in making a waste determination, while they also consider their specific generation process. In the case parts washer solvent, if a customer determines specific waste codes apply to their spent parts washer solvent then these codes will be used when servicing the parts washers. Generator services are typically scheduled months in advance and those clients whose waste happens to be on hand on the month selected by the Technical Center will be the wastes that will be sampled. See Exhibit C-2 for sampling locations from 2017.

The waste streams collected by Safety-Kleen are uniform across business types and geographical locations. This is demonstrated by the minimal changes in the codes assigned to each stream through the AR statistical evaluation each year via the Non-parametric Upper Confidence Interval Approach. If waste code(s) are removed from any of the waste streams evaluated by the AR program, and SK has a current, or potential, customer generating this waste stream that they believe include the removed waste code(s), the customer may complete a separate waste profile based on process knowledge, or TCLP analytical data, and the waste may be managed as a 10-day transfer material.

When subjecting AR sample data to the Non-parametric Upper Confidence Interval Approach, the last 3 years of analytical data for a given waste stream is used from samples pulled from across the country (in most cases). For example, statistically based waste codes assigned to a particular core waste stream in 2018 are based on samples analyzed in 2015, 2016, and 2017. Ideally 50 data points are used but at least 30 data points are required. If 30 data points are not available from samples pulled in 2015/2016/2017, samples from 2014 will also be incorporated into the population.

In reviewing with Dr. Gibbons how the number of data points was derived he wrote in a recent email ... "This is a nonparametric upper confidence limit (see Gibbons, Bhaumik and Aryal, 2010 section 18.7) which is defined by an order statistic (i.e. a rank) of the data. There is nothing magical about 30 or 50, but 50 is good because the median is the average of the 25th and 26th highest values and the UCL is the 31st largest value, which provides a reasonably tight confidence limit (i.e. not an extreme value)."

Homogeneity of the streams was further confirmed in 2004 when Safety-Kleen conducted an Annual Recharacterization using California-only customer data. Safety-Kleen conducted a statistical comparison of the 'California only' Annual Re-characterization result with the results from the National AR (Exhibit C-3). Note the conclusion that California customer wastes are no different than the streams generated by Safety-Kleen customers in the rest of the country.

The waste streams included in the Safety-Kleen AR process are by their nature consistent and predictable. The process includes streams generated by Safety-Kleen customers and terminated as permitted streams at Safety-Kleen facilities as well as streams generated by Safety-Kleen facilities.

Waste streams included in the Re-characterization process for 2017 (for 2018 waste codes) were:

CUSTOMER GENERATED

Immersion Cleaner
Parts Washer Solvent Premium
Paint Gun Cleaner/Paint Wastes/Clear Choice
Dry Cleaner (Perc/naptha-based)

SAFETY-KLEEN GENERATED

Bulk Solvent Dumpster Sludge Tank Bottoms

AR Sample Testing Protocol is located in Exhibit C-4. Procedures used for obtaining the samples is included in Exhibit C-5. Final AR (National) Waste Code Assignments are included in Appendix B. A copy of Safety-Kleen's current Annual Re-characterization Data is included in Appendix B. All AR Samples are analyzed by a single lab, currently Test America (Pittsburgh, PA), an independent NELAP accredited environmental laboratory:

Test America-Pittsburgh 301 Alpha Drive Pittsburgh, PA 15238

Waste Determination for Subpart BB and CC Compliance

For purposes of waste determination, this facility utilizes knowledge of the wastes described in this section. The used solvent managed in the tank system is presumed to contain hazardous waste with an organic concentration of at least 10-percent by weight, so Subpart BB regulations apply. For those hazardous wastes that are managed on a transfer basis, the Subpart CC regulation does not apply. However, the owner/operator may use knowledge of the waste based on information included in manifests, shipping papers or waste certification notices to confirm waste determination for the generator or the ultimate receiving facility.

Based upon this knowledge, it has been determined that most waste solvents managed in tanks and containers at this facility may display an average volatile organic concentration of greater than 500 ppm at the point of waste origination. Therefore, no exemption allowed in 40 CFR 264.13b(8) from Subpart CC regulations is requested and hazardous wastes managed in tanks and containers at this facility shall be managed in accordance with applicable Subpart CC standards.

270.14(b)(3), Parameters and Rationale 264.13(b)(1)

Safety-Kleen's permitted waste streams which are all received in containers are broken into four types:

- Used Parts Washer
- Solvent Immersion Cleaner
- Paint Waste
- Dry Cleaner-Perchloroethylene/Naptha

The product provided, or in the case of dry cleaner solvents that are purchased by the generator, makes up the majority of the waste. As such the analytical testing includes the regulated constituents in these products and the regulated metals and volatile solvents that may come in contact with the products. This, combined with a known process that the waste streams are being derived from, form the basis for testing.

The purpose of the Re-characterization is to determine the waste codes applicable to core waste streams managed and generated by Safety-Kleen facilities. As such, a waste stream may be excluded from Re-characterization once it has consistently been designated as non-hazardous. A stream may also be excluded from Re-characterization when it has been determined that the codes assigned to the stream are stable and marginal changes in trace constituents will not affect the management of the stream. Lastly, a set of analytes may be omitted if they are not expected or are demonstrated to not be present in a waste stream. Pesticides and herbicides have never been included in the Re-characterization process as these constituents are not allowed in wastes picked up by Safety-Kleen. Analysis for semi-volatiles is in the process of being phased out as codes for semi-volatiles have never been assigned.

270.14(b)(3); Test Methods 264.13(b)(2)

Exhibit C-4 details the AR sample testing protocol.

270.14(b)(3); Sampling Methods 264.13(b)(3)

AR Sampling Method Requirements are found in Exhibit C-5.

270.14(b)(3); Frequency of Analysis 264.13(b)(4)

As described previously, a Qualitative/Visual analysis of the parts washer wastes managed at the Service Center is conducted for each waste pickup. Safety-Kleen's Re-characterization is conducted annually.

270.14(b)(3); 264.13(b)(5)(c) Additional Requirements for Wastes Generated Off-Site

Generators are informed of the results of the AR each year. No action is required by the generator if they agree to the waste code(s). However, if a generator chooses to use knowledge of its process to identify which waste codes are attached to the waste, approval by Safety-Kleen's Central Waste Profiling group is required. In most cases, laboratory analytical data will be required to remove codes determined by the AR process. If additional waste codes are identified by the generator, Safety-Kleen will set up a specific profile for that generators waste stream identifying those waste codes provided.

270.14(b)(3); Additional Requirements for Ignitable, Reactive, or Incompatible Wastes

Waste received at the facility is analyzed according to the procedures described in the Waste Analysis Plan. All ignitable wastes terminated at the facility are compatible with each other and the containers in which they are stored. Therefore, additional analyses to evaluate compatibility are not necessary.

The permitted storage warehouses where ignitable waste is stored are designed for this material. The Container Area is constructed with four hour fire walls, and the roll-up door between the return/fill station and container storage area will close in the case of a fire. All electric components in the Return and Fill area are intrinsically safe. Hot work permits are required for any work that may involve excess heat, sparks or open flames in these storage areas and are conducted only when ignitable materials are not present. No Smoking signs are posted in all areas where ignitable waste is stored and smoking is not allowed within the office, warehouse or fenced areas of the facility.

The only permitted waste opened at the facility is the used parts washer solvent waste, which is consolidated in the aboveground waste storage tank. No other waste streams are added to the tank.

270.14(b)(3); 264.13; Waste Analysis Requirements Pertaining to Land Disposal Restrictions Part 268

All of the permitted waste streams received and stored at the Sanford facility are treated or recycled at an approved Safety-Kleen/Clean Harbors TSDF, contract reclaimer, or other properly permitted facility. The drum washer sediment generated at the facility is containerized and shipped offsite for reclamation. The Service Center does not dispose of any hazardous wastes onsite and does not send any permitted wastes to land disposal facilities. Therefore, the Sanford Service Center is not required to certify that hazardous wastes that are restricted from land disposal are below treatment standards. The following sections discuss how Safety-Kleen determines appropriate Land Disposal Restriction (LDR) classification and treatment standards and how LDR notification requirements are met.

```
270.14(a); 264.13(a)(1); Waste Analysis
268.1; 268.7; 268.9;
268.32-268.37; 268.41 -
268.43
```

Due to the nature of its business, Safety-Kleen receives wastes that are untreated and that are assumed to exceed the LDR treatment standards. For the Safety-Kleen parts washer solvent, immersion cleaner, dry cleaner wastes and paint wastes, the hazardous constituents are known. The rationale for the selection of LDR treatment standards are provided below.

```
270.14(a); 264.13(a)(1); Spent Solvent and Dioxin-Containing Waste 268.2(d); 268.2(f); 268.7; 268.30; 268.31
```

Safety-Kleen will manage F-solvent wastes. The spent dry cleaning perchloroethylene is F-Solvent non-wastewater waste with the following treatment standard: tetrachloroethylene (6.0 mg/kg). The perchloroethylene treatment standard for wastewaters is 0.056 mg/l.

None of the permitted wastes Safety-Kleen handles contain dioxins.

```
270.14(a); 264.13(a)(1); California List Wastes 268.7; 268.32; 268.42(a)
```

California list wastes are a distinct category of RCRA hazardous wastes that are restricted under the land disposal restrictions (LDRs). These restrictions only apply to liquid wastes, with the exception of Halogenated Organic Compounds (HOCs), which may be liquid or non-liquid. In Safety-Kleen's case, all of our permitted waste streams are liquid, with the possible exception of the Dry Cleaning Filters, which can be dry although they may have low levels of free liquids at times. In either case the California List Waste rules apply as the Perc Filters contain HOCs. The Safety-Kleen permitted waste streams do not contain PCBs over 50 ppm, free cyanides >1000 mg/l, nor do they have a pH of <2, so these categories do not apply.

Safety-Kleen permitted wastes are either recycled, fuel blended or incinerated. If any of the residues are landfilled, the prohibition levels for the California listed metals and HOC's will apply. Should liquid residues be landfilled they will have less than the metal prohibition limits prior to land disposal, and liquids and non-liquids will have less 1000 mg/kg of HOCs.

```
270.14(a); 264.13(a)(1); Listed Wastes 268.7; 268.33 - 268.36; 268.41 - 268.43
```

Safety-Kleen does not handle non-solvent F-listed, K-listed, or P-listed waste in its permitted areas. Any transfer waste having these codes will have the appropriate LDR paperwork accompany the manifest so the designated facility can treat the material appropriately.

270.14(a); 264.13(a)(1); 268.7; 268.9; Part 268, Appendix I, IX Characteristic Wastes

Wastes with treatment Standards – Safety-Kleen may generate or store D001 wastes, including parts washer solvent. Since this waste contains high levels of organics, Safety-Kleen assumes that all D001 wastes will contain ≥10 percent total organic carbon (TOC). The technology-based standards for these non-wastewaters are "RORGS", (recovery of organics) or CMBST (high temperature organic destruction).

Safety-Kleen may also generate or store wastes that may be classified as D006, D007 (example: immersion cleaner, dry cleaner waste). The non-wastewater treatment standards for land disposal of these wastes are 0.11 mg/L TCLP, and 0.60 mg/L TCLP respectively. The wastewaters treatment standards for D006 (cadmium) and D007 (chromium) are 0.69 mg/l, and 2.77 mg/l respectively.

270.14(a); 268.3 Dilution and Aggregation of Wastes

Safety-Kleen's parts washer solvent is the only permitted waste consolidated at the site. All solvent is either recycled or destroyed via combustion; so this section does not apply.

270.14(a); 264.13; Notification, Certification, and Recordkeeping Requirement 264.73; 268.7; 268.9(d)

For all waste streams terminated at this facility, in accordance with the regulations listed above Safety-Kleen will provide to the TSDFs, or authorized treatment/disposal facility, and require from its' regulated customers, notification/certification which provided the treatment standards for the wastes banned from landfills. These will be updated any time the waste should change or the waste is delivered to a new final permitted site. A copy of this notification/certification shall be available (via electronic storage) at the Sanford facility.

270.14(a); 264.13; Notification, Certification, and Recordkeeping Requirement 268.7(a)

The notice is required paperwork for all Safety-Kleen permitted waste types. The notices and certifications provided by regulated customers must be reviewed for correctness and be kept on file (electronically) at the Service Center for at least three years as part of the operating record.

270.14(a); 264.13; Notification and Certification Requirements for Treatment Facilities 268.7(b)

This facility is not a treatment facility. Therefore, this section does not apply.

270.14(a); 264.13; Notification and Certification Requirements for Land Disposal Facilities 268.7(b)

This facility is not a land disposal facility. Therefore, this section does not apply.

```
270.14(a); 264.13; Wastes Shipped to Subtitle C Facilities 268.7(a)-(b)(6)
```

All of Safety-Kleen Sanford Branch permitted wastes are shipped to a RCRA Subtitle C permitted facility.

```
270.14(a); 264.13; Wastes Shipped to Subtitle D Facilities 268.7(d); 289.9(d)
```

None of Safety-Kleen Sanford permitted wastes are shipped to a Subtitle D facility. Therefore, this section does not apply.

```
270.14(a); 264.13; Recyclable Materials 268.7(b)(6)
```

Safety-Kleen Sanford permitted wastes are not shipped as recyclable materials used in a manner constituting disposal subject to the provisions of 40 CFR 266.20(b). Therefore, this section does not apply.

```
270.14(a); 264.13; Recordkeeping 264.73; 268.7(a) (5),(a)(6),(a)(7), (d)
```

Safety-Kleen Sanford does no recycling onsite. Therefore, this section does not apply.

```
270.14(a); 264.73; Requirement Pertaining to the Storage of Restricted Wastes
268.50
270.14(a); 264.73; Restricted Wastes Stored in Containers
268.50(a)(2)(i)
270.14(a); 264.73; Restricted Wastes Stored in Tanks
268.50(a)(2)(ii)
```

Safety-Kleen Sanford stores restricted wastes in tanks and containers solely for accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment, or disposal. Containers are marked with their contents and the accumulation start date. Tanks are marked with their contents and the waste movements are maintained in the operating record. The facility complies with the requirements in 40 CFR 262.34 and part 264 as wastes are stored for no more than one year, typically much less.

```
270.14(a); 264.73; Storage of Liquid PCB Wastes 268.50(f)
```

Safety-Kleen Sanford does not store liquid PCB waste on site. Therefore, this section does not apply.

270.14(b)(21); Exemption From Prohibition 268.6

Safety-Kleen Sanford does not seek an exemption to this prohibition. Therefore, this section does not apply.

270.14(a; 264.73; Variance From a Treatment Standard 268.7; 268.44

Safety-Kleen Sanford does not seek an exemption to a treatment standard. Therefore, this section does not apply.

270.14(a;	Requirements for Surface Impoundments Exempted from Land Disposal
264.13(b)(7);	Restrictions
268.4; 267.14	
270.14(a);	Exemption for Newly Identified or Listed Wastes
267.13; 268.14	
270.14(a);	Treatment of Wastes
264.13;	
268.4(a)(1)(b)	
270.14(a);	Sampling and Testing
264.13(b)(6);	
268.4(a)(2)(i),(iv)	
270.14(a);	Annual Removal of Wastes
264.13(b)(7)(iii);	
268.4(a)(2)(ii)	
270.14(a);	Design Requirements
264.13;	
268.270.14(a);	
268.4(a)(3),(4)(b)	

Safety-Kleen Sanford does not have a surface impoundment. Therefore, these sections do not apply.

Waste Manifests

Appropriate shipping papers/manifests are used, based on the monthly quantity of hazardous waste generated by the customer. Safety-Kleen services all three categories of generators in Florida – Conditionally Exempt Small Quantity Generators (CESQGs), SQGs, and LQGs. CESQGs' spent solvent is removed via a service document and no manifest or Land Disposal Restrictions (LDR) form is required. Appropriate records are kept at the Branch as to the date of waste pick-up, quantity, and other data on the service document. An LDR form is completed for each SQG. LQGs' spent solvent is always manifested (if hazardous) and an LDR form completed.

Spent solvent (from each Safety-Kleen customer, regardless of generator status) is brought back to the Branch and dumped in the return/fill station and pumped to the waste solvent tank. This tank contains the spent solvent of many customers and is hazardous. The contents are regularly sent via tanker truck to the recycle center in Lexington, SC. These loads are always manifested and accompanied by a LDR form. Shipments of parts washer solvent dumpster mud are also manifested accordingly. Required records are kept at the Branch and the recycle center in accordance with regulatory timeframes.

In accordance with 40 CFR 264.71 through 77, Safety-Kleen will ensure that:

- 1. Customers who are required to provide a manifest do so;
- 2. The manifests are prepared and signed properly; and
- 3. Copies are distributed and kept on file, as required.

In addition, discrepancies must be remediated in accordance with 40 CFR 264.72 and un-manifested wastes will be reported as described under 40 CFR 264.76.

Required Notices

If Safety-Kleen arranges to receive hazardous waste from a foreign source, the Regional Administrator must be notified in writing at least four weeks in advance of the date the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source is not required. Safety-Kleen informs its customers in writing (i.e., on each service document) that the facility has the appropriate permit(s) for, and will accept the waste the generator is shipping. Safety-Kleen keeps a copy of this written notice as part of the operating record.

Before transferring ownership or operation of this facility during its operating life, Safety-Kleen will notify the new owner or operator in writing of the requirements of Part 264 and Part 270 of Chapter 40 in the Code of Federal Regulations.

Biennial reports required by Chapter 62-730.180(4) FAC, will be prepared and submitted by Safety-Kleen, and these records will also be available at the facility for review. The biennial report will be submitted to the Regional Administrator and/or FDEP by March 1 during each even year (1990 being the first year) on EPA form 8700-13B. The report will cover facility activities during the previous calendar years and will include:

- The EPA identification number, and address of the facility;
- The calendar years covered by the report;
- The method of treatment, storage, and disposal for each hazardous waste; and
- A certification signed by the owner or operator of the facility or the authorized representative.

Operating Record

An operating record which contains the information required under 40 CFR 264.73 is maintained and all records and logs are available at the facility, in accordance with 40 CFR 264.74. A copy (paper) of the operating record is retained at the facility to comply with 40 CFR 264.73(b).

The following information will be maintained in writing in the operation record for the facility:

- A description and quantity of each hazardous waste received;
- The date and storage method for such hazardous waste;
- The location of each hazardous waste stored within the facility;
- · Records and results of waste analyses performed;
- Summary reports and details of all incidents that require implementation of the contingency plan;
- Monitoring, testing, or analytical data, and corrective action where required by Subpart F and other applicable sections of 40 CFR 264;
- All closure cost estimates under 40 CFR 264.142 and all contingent post-closure cost estimates under 40 CFR 264.144;
- Records of quantities and date of placement for each shipment of hazardous waste placed in land disposal units under an extension to the effective date of any land disposal restriction granted; and
- For any restricted waste generated that can be land disposed without further treatment, and is sent to a land disposal facility, a notice and certification will be sent to the treatment, storage, or land disposal facility with the waste. The notice will state that the waste meets the applicable treatment standards set forth in Subpart D of 40 CFR 268 and applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). The notice will include the following information:

- 1. EPA Hazardous Waste Number; and
- 2. The corresponding treatment standards and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d).
- Training records, inspection reports, waste minimization certifications, closure plan, and Corrective Action Documents.

Further, the LDR certification will be signed by an authorized representative and will state the following:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Section 264.74 requires that all records, including plans, must be furnished upon request to duly designated representative of the Regional Administrator, and this requirement will be honored. A copy of all records of waste disposal locations and quantities will be submitted to the Regional Administrator and/or FDEP upon closure of the facility, if applicable.

As a registered transporter and storage facility for mercury-containing lamps and devices destined for recycling, the Branch complies with the record keeping requirements of FAC 62-737.

Land Ban Notification/Certification Forms

In accordance with 40 CFR 268.7, Safety-Kleen will provide notification/certification for wastes banned from landfills as follows:

- 1. Special forms for each regularly handled wastes types (e.g., parts washer solvent, immersion cleaner, and percholoroethylene); or
- 2. A general form that must be completed for unique or nonstandard waste streams.

The notice is required paperwork for the streams handled by Safety-Kleen. When a shipment with the notice is received, the notice is kept in the files of the receiving facility with the manifest or with the preprint if a manifest is not used.

The facility will comply with the RCRA permitting conditions found in 40 CFR Part 270.30(l)(1), 270.30(l)(2), and 270.30(l)(6). The facility will comply with the record keeping requirements found in 40 CFR Part 264.1064 and 264.1089.

Part II. General

A-8

The Federal laws found in 40 CFR Part 270.3 do apply to Safety-Kleen although they do not appear to be applicable at this time.

Exhibit C-1

Statistical Model (Gibbons)

Statistical Analysis of Annual Waste Characterization Data

Prepared by Robert D. Gibbons Ph.D.

for

Safety Kleen July 23, 1998

1 Introduction

Since 1990, Safety-Kleen has undertaken a major analytical study each year to document the contaminants in some of its most common waste streams to determine which TCLP waste codes should appear on the manifest for that waste. This Annual Waste Recharacterization Program is both expensive and extensive. Upon review, it appeared that regulatory agency instructions for how to interpret the data might not have been in line with current policy, as reflected in SW846. The general approach is based on development of an upper 90% confidence limit for the true concentration of each constituent, which can in turn be directly compared to regulatory standards to determine if the waste code should or should not be added to a particular waste stream (e.g., Premium Gold Parts Washer Solvent 150). The regulatory basis for this type of comparison stems from U.S. EPA SW846 Chapter 9 (September 1986) guidance on determining if a waste stream is hazardous.² The primary complicating feature is the presence of large numbers of nondetects which raises serious question regarding the use of the parametric approach. In light of this concern, nonparametric methods are used throughout. Specifically, following U.S. EPA SW846, we construct a nonparametric 90% upper confidence limit (UCL) for the 50th percentile of the distribution (i.e., median), which is equivalent to the 90% UCL for the mean in the case of a symmetric distribution such as the normal distribution.

¹"Consequently, the CI employed to evaluate solid wastes is, for all practical purposes, a 90% interval." U.S. EPA SW846 (1986) chapter 9 page 6.

 $^{^{2}}$ nThe upper limit of the CI for μ is compared with the applicable regulatory threshold (RT) to determine if a solid waste contains the variable (chemical contaminant) of concern at a hazardous level. The contaminant of concern is not considered to be present in the waste at a hazardous level if the upper limit of the CI is less than the applicable RT. Otherwise the opposite conclusion is reached. "U.S. EPA SW846 (1986) chapter 9 page 3

³"If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed. This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, April 1989, page 6-8

2 Method

Following Chapter 9 of SW846, the 90% UCL for the mean concentration obtained from a series of *n* representative samples is to be compared to the appropriate regulatory standard to determine if the waste stream is hazardous. If the UCL exceeds the standard, the waste stream is considered hazardous. The applicant must compute the UCL that is appropriate for the specific distributional form of the data. Given the large number of nondetects for many of the constituents, it is difficult if not impossible to clearly identify the underlying distributional form of the data. In this case, the U.S. EPA guidance indicates that a nonparametric alternative should be used.⁴

Nonparametric confidence limits are derived as follows. Given an unknown $P \times 100$ th percentile of interest (e.g. the 50th percentile or median), where P is between 0 and 1, and n concentration measurements, the probability that any randomly selected concentration measurements being less than the $P \times 100$ th percentile is simply P and the probability of exceeding the $P \times 100$ th percentile is 1 - P. In light of this, the number of sample values falling below the $P \times 100$ th percentile out of a set of n measurements follows a Binomial distribution with parameters n and P.

The connection with the Binomial distribution can be used to determine an interval formed by a given pair of order statistics (i.e. ranked values) that will contain the percentile of interest, in this case the 50th percentile. Similarly, the Binomial distribution can also be used in constructing an upper limit (i.e. one-sided) for the percentile (e.g. a 90% upper confidence limit for the 50th percentile of the distribution). The computational formula for the cumulative binomial distribution B(x;n,p), representing the probability of getting x or fewer successes in n trials with success probability p is given by

$$Bin(x; n, p) \equiv \sum_{i=0}^{x} \binom{n}{i} p^{i} (1-p)^{n-i}$$

To draw inference regarding the P = 50th percentile, we set p = .5 in the previous equation. For a one-sided UCL we compute

$$1 - \alpha = 1 - Bin(U - 1; n, .5)$$

beginning from the sample median. We then increase U by one until in this case $1 - \alpha$ is equal to at least .90. The smallest value of U that provides $1 - \alpha \ge .9$ is then the order statistic (i.e., ranked value) that is the nonparametric 90% UCL for the 50th percentile of the distribution.

⁴ "If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed." U.S. EPA, 1989

⁵ "This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA (1989), page 6-8₁₂₇₉

3 Illustration

Consider the following most recent 50 data values for PCE (D039) obtained from Premium Gold Parts Washer Solvent-150.

Table 1
Premium Gold Parts Washer Solvent - 150
50 most recent samples in order of increasing concentration in ppm

<50,000	<1.000	< 0.100	< 0.100	< 0.100
< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
< 0.100	0.110	0.200	0.200	0.220
0.230	0.260	0.510	0.870	0.880
1.000	1.300	1.500	1.800	2.000
2.700	2.700	3.300	5.400	7.000
7.100	12.000	12.300	17.200	19.700
20.000	20.000	21.200	23.600	32.300
51.100	52.500	136.000	211.000	286.000
508.000	635.000	771.000	940,000	2810.000

For n =50, p =.5 and 1 - α = .9, we find that U = 31 is the smallest order statistic that provides 90% confidence or more (1 - α = .941). As such, we select the 31st largest value in Table 1 which is 7.1 ppm as our UCL. Since 7.1 ppm is larger than the standard of 0.7 ppm, then the D039 waste code is required for this waste stream.

4 Conclusion

The data in the following package have been interpreted using the methodology described. The waste codes for each stream were determined as those parameters for which the 90% UCL for the median concentration was above the regulatory limit, based on review of the last two years of samples or the most recent 50 samples, whichever yielded the larger number of samples to consider.

Exhibit C-2

AR Program Sampling Location Map

EXHIBIT C-2

AR SAMPLING PROGRAM LOCATIONS 2017

Arizona

Charlotte

Chandler

Raleigh

St. Pauls

California

Los Angeles

North Dakota

Sacramento

Bismarck

Santa Ana

<u>Oklahoma</u>

Florida

Oklahoma City

Tallahassee

Tulsa

Idaho

Oregon

Boise

Clackamas

Kansas

South Carolina

Wichita

Lexington

Massachusetts

<u>Utah</u>

Salisbury

Salt Lake City

Nebraska

Vermont

Grand Island

Barre

Omaha

<u>Virginia</u>

New Mexico

Chesapeake

Albuquerque

Chester

Farmington

Vinton

New York

Wisconsin

Avon

Kaukauna

Cohoes

Waukesha

Lackawanna

Syracuse

North Carolina

Archdale

Charlotte

Exhibit C-3

California Annual Recharacterization Sampling Analysis

Statistical Comparison of Annual Recharacterization Data from California to the Rest of the Nation

Prepared by Robert D. Gibbons Ph.D. for Safety Kleen March 2004

1 Introduction

Since 1990, Safety-Kleen has undertaken a major analytical study each year to document the contaminants in some of its most common waste streams to determine which TCLP waste codes should appear on the manifest for that waste. This Annual Waste Recharacterization Program is both expensive and extensive. The general approach is based on development of an upper 90% confidence limit for the true concentration of each constituent, which can in turn be directly compared to regulatory standards to determine if the waste code should or should not be added to a particular waste stream (e.g., Premium Gold Parts Washer Solvent 150). The regulatory basis for this type of comparison stems from U.S. EPA SW846 Chapter 9 (September 1986) guidance on determining if a waste stream is hazardous. As stated by U.S. EPA, "The upper limit of the CI for μ is compared with the applicable regulatory threshold (RT) to determine if a solid waste contains the variable (chemical contaminant) of concern at a hazardous level. The chemical contaminant of concern is not considered to be present in the waste at a hazardous level if the upper limit of the CI is less than the applicable RT. Otherwise the opposite conclusion is reached" (U.S. EPA SW846 (1986) chapter 9 page 3). The primary complicating feature is the presence of large numbers of nondetects which raises serious question regarding the use of the parametric approach. In light of this concern, nonparametric methods are used throughout this analysis. Again, as stated by U.S. EPA, "If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed. This interval is for the median concentration (which equals the mean if the distribution is symmetric)" (U.S. EPA Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, April 1989, page 6-8). Specifically, following U.S. EPA SW846, Safety Kleen constructs a nonparametric 90% upper confidence limit (UCL) for the 50th percentile of the distribution (i.e., median), which is equivalent to the 90% UCL for the mean in the case of a symmetric distribution such as the normal distribution.

In review of this work, the State of California (DTSC/HML) has requested evidence that the data collected by Safety Kleen (SK) from California generators are representative of the data from the rest of the nation. Note that this involves a large number of statistical comparisons. There are as many as 11 waste streams and 33 constituents per waste stream (metals, volatile organics, semivolatile compounds, pH and flash point). In all, there are as many as 11*33=363 comparisons to be made. Using 95% confidence, there will be as many as 363*.05=18 comparisons that are significantly different by chance alone. In the following sections, a statistical methodology is described that will detect real differences when they are present (i.e., have a low false negative rate) and not identify differences that are consistent with chance expectations (i.e., have a low false positive rate).

2 Method

To compare the California data to the rest of the nation, data from all states except California will be used to construct a statistical prediction interval for the mean (or median in the nonparametric case) concentration obtained from the California generator samples. If the actual mean concentration for the California samples is within the prediction interval, then we can conclude with 95% confidence that the California concentrations are consistent with the concentrations observed across the nation. By contrast, if the California mean concentration is outside of the prediction interval, then we can conclude with 95% confidence that the California samples contain concentrations that are either higher or lower than those found in the rest of the country (for a particular waste stream and constituent). A two-sided interval will be used to determine if additional waste codes should be added or if some waste codes should be deleted from the California list.

In the following sections, statistical details of normal, lognormal, and non-parametric forms of these prediction intervals are provided.

2.1 Normal Prediction Intervals for the Mean of m Future Measurements

In certain cases, we may be interested in comparing an average concentration from a small group to a much larger control population. For example, we may wish to compare the mean concentration for generators in California, to the concentration distribution for the rest of the country. One approach to solving this problem is to compute a normal prediction interval for the mean of m new samples, based on a background data set of n samples. For example, the m samples may be from all generators in California, and the n samples may be from a large number of generators across the nation (excluding California). The $(1-\alpha)100$ percent normal prediction interval for a single future mean of m samples is:

$$\bar{x} \pm t_{[\hat{n}-1,1-\alpha/(2k)]} s \sqrt{1/m+1/n}$$
, (1)

where t is an upper percentage point of Student's t-distribution on n-1 degrees of freedom, s is the standard deviation of the n background samples, \tilde{x} is the mean of the n background samples, and k is the number of statistical comparisons being performed.

3 Lognormal Prediction Intervals for the Median of m Future Measurements

When the distribution of the n background measurements is shown to be log-normal, the $(1-\alpha)100\%$ lognormal prediction interval for the median of the next m measurements is:

$$exp\left(\bar{y}\pm t_{[n-1,1-\alpha/(2k)]}s_{y}\sqrt{1/m+1/n}\right)$$
 (2)

where \bar{y} and s_y are the mean and standard deviation of the natural log transformed data. While in the normal case, the analogous prediction interval is for the mean, in the lognormal case, the exponentiated limit is for the median value.

4 Lognormal Prediction Intervals for the Mean of m Future Measurements

When the data are lognormally distributed and the comparison of interest is in reference to a future mean, we can use Land's coefficients to obtain an

approximate $(1 - \alpha)100\%$ lognormal prediction interval for the mean of m future measurements. The lower prediction limit is

$$exp\left(\bar{y} + .5s_V^2 + H_{\alpha/(2k)}s_V\sqrt{\frac{1}{m} + \frac{1}{n}}\right) , \tag{3}$$

and the upper prediction limit is

$$exp\left(\bar{y} + .5s_y^2 + H_{1-\alpha/(2k)}s_y\sqrt{\frac{1}{m} + \frac{1}{n}}\right)$$
, (4)

where H_{α} and $H_{1-\alpha}$ are factors for deriving lognormal confidence intervals given by Land (1971, 1975).

5 Nonparametric Prediction Intervals for the Median of m Future Measurements

In the nonparametric case, we can also construct a prediction interval for the median of m measurements based on a background of n samples. The idea is to identify a pair of upper and lower order statistics of the n background measurements that will provide $(1-\alpha)100\%$ confidence of including the median California measurement. Note that for nonparametric intervals, the mean is not defined, so we must construct an interval for a future median. Fligner and Wolfe (1979), Guilbaud (1983) and Hahn and Meeker (1991) illustrate how the inverse hypergeometric distribution (Guenther, 1975) can be used to identify the appropriate order statistic of the n background measurements that will provide the desired level of confidence $1-\alpha$, for given values of n and m. The inverse hypergeometric distribution is computed as the function

$$G(l, u, r, m, n) = \sum_{i=1}^{N} g(i, r+i, m, n)$$
 (5)

where

$$g(i, r+i, m, n) = \frac{\binom{r-1}{i} \binom{n-r}{n-i}}{\binom{n}{m}}$$
(6)

and l is the lowest and u is the highest order statistic in the current interval, r is the median rank of the m new samples and n is the number of background measurements. To obtain a two-sided upper prediction limit (UPL), we iteratively solve for

$$G(l, u-1, r, m, n) \ge 1 - \alpha/(2k)$$
, (7)

for l and u.

6 Summary of Statistical Approach

In summary, depending on detection frequency, and distributional form, normal, lognormal, or nonparametric prediction intervals were computed to compare the mean(median) concentration in California for each waste stream, and for each monitored constituent to the national database (excluding California). For normal and lognormally distributed constituents, we constructed a prediction interval for a future mean. If distributional testing for the national database (excluding California) did not support normality or lognormality, or if the detection frequency was less than 50%, we computed a nonparametric prediction interval for a future median concentration. Given the large numbers of constituents, we adjusted the individual comparison false positive rate (for each waste stream) to provide an overall false positive rate of 5% (i.e., 95% confidence) for each waste stream.

In those cases in which the actual mean(median) for the California data exceeded the UPL, a normal 90% upper confidence limit was computed for that waste, stream, and constituent, and that state-specific limit will be used to determine whether a specific waste-code should be associated with that waste stream in California.

7 Results

The previously described statistical methodology was applied to the following constituents:

Constituents used in the Analysis

Constituent

1,1-dichloroethylene

1,2-dichloroethane

1,4-dichlorobenzene

2,4,5-trichlorophenol

2,4,6-trichlorophenol

2,4-dinitrotoluene

2-methylphenol

Arsenic

Barium

Benzene

Cadmium

Carbon tetrachloride

Chlorobenzene

Chloroform

Chromium

Flash point

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Lead

M+p-cresol

Mercury

Methyl ethyl ketone

Nitrobenzene

Pentachlorophenol

pH

Pyridine

Selenium

Silver

Tetrachloroethylene

Trichloroethylene

Vinyl chloride

in the following waste streams:

Waste Streams used in the Analysis

Waste Stream

Antifreeze

Auto Oil

Dry Cleaner Bottoms (DCB)

Aqueous Parts Washer (APW)

Immersion Cleaner

Industrial Oil

Paint Waste

Parts Washer Solvent (PWS) 105+150

Parts Washer Solvent 105R

Parts Washer Solvent 150

Parts Washer Solvent Sludge/Dumpster Mud (SDM)

Parts Washer Solvent Tank Bottoms (TB)

Overall, the majority of California data were consistent with the rest of the United States. 1,4DCB was less than the immersion cleaner LPL, whereas pH exceeded the UPL. For paint waste, TCE was less than the national LPL. For PWS 105+150, 1,4-DCB, 2-methylphenol, and benzene all exceeded the corresponding national UPLs. For PWS-SDM, pH exceeded the UPL. For PWS-TB, flash point was less than the national LPL.

For these waste streams and constituents, the California 90% normal UCLs (which can be used in place of the national values) were

	Cornelituaute ut	ed in the Analysis		
Waste Stream	Constituent	CA UCL in mg/l.	Navi tick in mg/L	Reg Limit in mg/L
Antifreeze	PCE	272	NA	0.7
Auto Oil	PCE	690	NA	0.7
Auto Oil	Benzene	21	МА	0.8
Immersion Cleaner	1.4-DCB	60	140	7.5
Linmerston Cleaner	ЪЩ	10.5	10	2-12.5
Paint Waste	TCE	64	27.1	0.6
Parts Washer Solvent 105+160	1.4-DCB	.54	<2.0	77.5
Parts Washer Solvent 105+150	2-methylphonol	.44	1.8	200
Parts Washer Solvent 105+150	Bonzene	8.7	2.2	0.6
Parts Washer Solvent SDM	рĦ	8.7	8.2	2-12.5
Parte Wesher Solvent TB	Flash Point	Too Few (n=2)	145	140

These UCLs can be used in place of the national UCLs; however, I do not recommend use of the California UCLs for PCE in antifreeze and auto oil, because they are elevated due to a single outlying value. All analytical Tables are presented in the Appendices.

References

- [1] Fligner, M.A. and Wolfe, D.A. (1979). Nonparametric prediction limits for a future sample median. Journal of the American Statistical Association, 30, 78-85.
- [2] Guenther, W.C. (1975). The inverse hypergeometric a useful model. Statistica Neerlandica, 29, 129-144. Note: A statistical foundational paper useful in deriving nonparametric prediction intervals.
- [3] Guilbaud, O. (1983). Nonparametric prediction intervals for sample medians in the general case. Journal of the American Statistical Association, 78, 937-941.
- [4] Hahn, G.J. and Meeker, W.Q. (1991). Statistical Intervals: A Guide for Practitioners. Wiley, New York. Note: An excellent text on statistical prediction, tolerance, and confidence intervals.
- [5] Land, C.E. (1971), "Confidence intervals for linear functions of the normal mean and variance," Ann. Math. Stat., 42, 1187-1205.
- [6] Land, C.E. (1975) Tables of confidence limits for linear functions of the normal mean and variance. In, Selected Tables in Mathematical Statistics, Vol. III, American Mathematical Society, Providence R.I., pp 385-419.
- [7] Wilk, M.B., and Shapiro, S.S. (1968). The joint assessment of normality of several independent samples. *Technometrics*, 10, no 4, 825-839.

Exhibit C-4

Sample Testing Protocol

Annual Re-Characterization Sample Testing Protocol

Spent Material	Test Parameters	Test Methods	
Parts Washer Solvent	Flash Point by Pensky Martens Closed Cup Tester	EPA SW-846 1010A	
	pH	EPA SW-846 9045D	
	Apparent Specific Gravity and Bulk Density of Waste	ASTM D5057	
	TCLP Metals	EPA SW-846 1311, 6010D, 7470A, 7471B	
	TCLP Semi-Volatiles	EPA SW-846 1311, 8270D	
	TCLP Volatiles	EPA SW-846 1311, 8260B	
Bottom Sediment from the Spent Parts Washer Solvent Tank and Return/Fill	Same as above		
Immersion Cleaner	Same as above		
Paint and Paint Gun Cleaner Waste	Same as above		
Aqueous Brake Clener	Same as above		
Dry Cleaner Waste	Same as above		

Based on the process generating the waste streams outlined in the above table, 40 CFR 261.24 regulated herbicides and pesticides are not expected to be present; and are therefore, not included in the parameters tested under the Annual Re-Characterization Program.

Analysis is performed on a representative grab sample obtained from a single customer's waste container using a COLIWASA (Composite Liquid Waste Sampler) unless compositing is required by a facility-specific waste analysis plan.

Exhibit C-5

Sampling Procedures

Annual Re-characterization Sampling Instructions

Good sampling practices are critical to the success of the Annual Re-characterization program. Please take your time when pulling samples, ensuring that all of the following requirements are fulfilled

Training Requirements and Supporting Documentation

SAFETYFIRST!

- ✓ Personal Protective Equipment (PPE) Follow requirements in attached PPE Matrix
- ✓ Prior to shipping samples by FedEx Air, you must complete the following:
 - IATA Dangerous Goods Regulations Training.
 - Sample shipping requirements are outlined in BOG 0310-005 (US) and 0C310-005/OC310-005 FC (Canada) and Clean Harbors TC 8.0 Handling, Packaging, and Transporting Samples policy

Supply Checklist

NOTE: To minimize opportunity for contamination, all AR sampling supplies are to be stored in facility office building until needed for actual sampling.

- ✓ Disposable COLIWASA (SK P/N 8941)
- ✓ Disposable plastic scoop
 ✓ Disposable plastic bucket Disposable plastic bucket if composite required (e.g., 6 gallon SK P/N 706)
- ✓ Sample Kits
 - SK P/N 3419 Required for all dry cleaning related materials
 - SK P/N 82260 Required for all other samples
- ✓ Housekeeping Supplies
 - PIG® Universal Heavy-Weight Mat
 - PIG® Heavy-Duty Maintenance Wipes
 - Plastic garbage bags
- Non sparking tools
- Grounding and bonding equipment
- ✓ Paperwork and Packaging Supplies
 - · Chain of Custody form
 - Pen and Sharpie Marker
 - Packaging Tape

Pre-sampling Preparation

- Time allow 15 minutes per sample
- ✓ IMPORTANT Make arrangements with warehouse workers/material handlers to set aside containers from different customers. Each container sampled must be from a different customer.
- ✓ . Place sample kit freezer packs in the freezer 24 hrs prior to sampling event.
- Purchase bags of ice to supplement the freezer packs if shipping samples in warmer weather
- ✓ Fill out Chain of Custody (COC) forms completely

How to fill out the Chain of Custody (COC) Form

- 1. Complete all fields in the COLLECTION INFORMATION section
- 2. IMPORTANT Both the Customer Name(s) and Customer Number(s) associated with the container(s) being sampled must be documented on the COC.

Revised 3/23/2015 Rick Haskins

In the event the analytical report shows atypical waste codes, we'll be able to track the sample back to the generator to discuss their specific process and possible source for contamination. Decision will need to be made regarding whether or not the generator's waste should remain as CORE, or is better handled through CWS.

- A unique identification number must be assigned to each sample using the format AR2015_PeopleSoft Plant ID_sample type (e.g., AR2015_CAZ_DC Perc Bottoms, AR2015_CAZ_Premium Solvent, etc.).
- 4. The same number must be written on the associated sample jar custody label so that the lab can match-up paperwork with samples upon receipt.
- 5. The sample collector must sign the RELINQUISHED BY section and enter the date and time of shipment.
- 6. Enter the air bill number on the COC form and make a copy of the form for your records.

Sampling

The majority of facilities' WAPs require "grab samples". A select few, however, require composite samples. See section below on how to obtain a composite sample.

The following table summarizes how samples are typically taken. Keep in mind, the waste streams required for sampling are permit specific (i.e., not every facility will be required to sample every stream outlined in the below table).

Sampling Methods/Practices to be used

o ASTM D5495 - Standard Practice for Sampling with a Composite Liquid Waste Sampler (COLIWASA)

o ASTM D5633 - Standard Practice for Sampling with a Scoop

Sample Type	Sampling Location	Sample Size/Kit	Homogenization Technique	Sampling Device	
Aqueous Brake Cleaner	5 gallon poly carboy	1 quart TCLP kit	Grab sample using multiple COLIWASA pulls or pour contents into a new bucket Stir/mix contents before sampling.	COLIWASA	
Dry Cleaner Naphtha/PERC Bottoms/Filters	Drum	Orum 1 quart Grab sample DOT SP-9168 Exemption Stir/mix content of drum with COLIWASA before sampling Grab sample 1 quart TCLP kit Stir/mix content of drum with COLIWASA before sampling		COLIWASA or Scoop	
Immersion Cleaner	Drum	1 quart	Stir/mix content of drum with	COLIWASA	
Paint Gun Cleaner Paint Waste	Drum	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	COLIWASA	
Parts Washer Solvent Bulk Tank	Tank	1 quart TCLP kit	Grab sample	Tank valve or from tanker using a COLIWASA during annual draw down	
Dumpster Sludge (APW and PWS)	Return and Fill	1 quart TCLP kit	Grab sample Stir/mix up Return and Fill bottoms with scoop before sampling	Scoop	

Revised 3/23/2015 Rick Haskins

Sample Type	Sampling Location	Sample Size/Kit	Homogenization Technique	Sampling Device	
Tank Bottoms (APW and PWS)	Tank	1 quart TCLP kit	Grab sample during tank clean out Stir/mix up tank bottoms with scoop before sampling	Scoop	
PWS 105	Drum	Orab sample 1 quart TCLP kit Stir/mix content of drum with COLIWASA before sampling		COLIWASA	
PWS Premium	Drum	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	COLIWASA	
APW	Drum			COLIWASA	
Antifreeze	Drum	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	COLIWASA	
Used Oil	Drum	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	COLIWASA	

- 1. Bring all items in the Equipment Checklist, including frozen sample kit freezer packs/ice, with you to the sampling location.
- Wear required PPE
- 3. Obtain a representative sample using a disposable plastic scoop or disposable COLIWASA

IMPORTANT - a new scoop or COLIWASA must be used for each sample pulled

- 4. Place all sampling debris in plastic garbage bag(s) and dispose of as Branch Generated Debris
- 5. Ensure the sample jar lid is tight. Seal the lid to the jar by wrapping with packaging tape.
- 6. Attach Custody Seal across the lid of the jar in such a way that the seal must be broken to open the jar. The Custody Seal must be signed by the sampler and contain the date, time the sample was pulled, and unique sample ID (ID must follow required format and match the ID written on the accompanying COC).
- 7. Place the sample jar(s) into a "Samples Only" refrigerator until ready to ship.
- 8. When ready to ship, place the quart sample jar into the TCLP kit with <u>frozen freezer packs</u>. Use additional bagged ice if shipping during warm temperatures. Close up the Styrofoam cooler and place the COC paperwork on top before sealing up the cardboard shipping box using shipping tape.

IMPORTANT - Ship samples Monday thru Wednesday via FedEx Priority Overnight to ensure they arrive Thursday or Friday when lab personnel are available to unpack and place in a refrigerator.

TestAmerica Laboratory
Attention: Debra Bowen (412.963.2445)
301 Alpha Drive, RIDC Park
Pittsburgh, PA 15238

CRITICAL - SAMPLE(S) MUST ARRIVE COLD AND LAB MUST ANALYZE WITHIN 14 CALENDAR DAYS FROM THE DATE YOU PULLED THE SAMPLE(S). IF SAMPLES ARRIVE WARM OR EXCEED 14 DAYS, YOU WILL NEED TO RESAMPLE.

Sampling using a COLIWASA

Ensure the COLIWASA is functioning properly before use. Confirm that the stopper is securely attached to the
plastic rod and provides a good seal when in the closed position.

OPEN the COLIWASA and SLOWLY lower into the container until it touches the bottom. The COLIWASA must
not be lowered with the stopper in the closed position. Opening the stopper after the tube is submerged will
cause material to flow in from the bottom layer only, resulting in gross over-representation of that layer. If lowered
too fast, a non-representative sample will result.

 When the COLIWASA touches the bottom of the container, pull up on the stopper mechanism to close the COLIWASA.

Slowly withdraw the COLIWASA from the container while wiping the outside of the COLIWASA with a disposable wipe.

 Place the end of the COLIWASA into the 32-oz sample jar and discharge contents by slowly opening the stopper mechanism.

Obtaining a Composite Sample (Only those branches that require a composite per permit)

· Use a new disposable plastic bucket

Use a new COLIWASA for each customer container sampled

For each customer container sampled, you'll actually need to pull the following two samples

Place one COLIWASA volume into the compositing bucket

O Using the same COLIWASA, fill a new quart glass jar (SK P/N 8895). This sample jar needs to be labeled with the customer name and number associated with the container that is being sampled. This sample will serve as a retain in the event analytical on the composite shows atypical results and we need to analyze all associated customer samples. These retains need to be stored until analytical on the composite sample is reported.

0189 F 45

After sampling all customer containers, mix the contents of the bucket.

 Use a COLIWASA to pull a sample of the mixture from the bucket and submit this sample to TestAmerica following instructions above.

PROF maskins Director Research and Development | Solety Kleen - A Claim Harbors Communy | Elgin III | rick haskins@solety-kleen com

847,468 6796 (b) | 600 347,1093 (c) | 847,468,6779 (f) | <u>safety-kleen.com</u>

SZÍZIV-KIGON, PRODUCERO BODO NA POR MAKE GRÉEN WORK

Part II

B. CONTAINERS

The hazardous waste container storage area is depicted in Figure 8-1. The warehouse is used for storage of virgin materials, permitted hazardous wastes, and transfer wastes. The location of the permitted storage area is shown in Figure 8-1.

CONTAINMENT SYSTEM

The container storage area (47' 8" x 34' 1") shown in Figure 8-1 occupies the northwestern portion of the warehouse (47' 8" x 78' 6"). This warehouse area has concrete floors, and a central collection trench to form a spill containment system within the area.

The containment volume is composed of the sloped concrete floor and the collection trenches. The containment calculations are illustrated in Figure 8-2. The total containment volume was measured at 2,077 gallons. Therefore, the maximum storage capacity is 20,770 gallons. The amount of waste that is permitted to be stored in the container storage area is 6,912 gallons. Waste allowed for storage is immersion cleaner, dry cleaning solvent, parts washer solvent dumpster mud, tank bottoms, paint related wastes and oil filters. The types and number of each type of container may vary; however, the storage capacity will not be exceeded. Virgin materials (product) is stored in the southern portion of the warehouse building.

FRS Waste and Transfer Wastes

Transfer wastes may be stored in the southern portion of the permitted container storage area, and northwestern portion of the Return/Fill area (Figure 8-1). Since FRS wastes are transfer wastes only, they are not required to have containment, although these two areas are provided with secondary containment.

The containment area in the warehouse has been coated with Sikagard® 62 or equivalent. This material, when properly applied, is capable of withstanding the products handled by Safety-Kleen. Other coatings may be used in the future and will be evaluated by Safety-Kleen to ensure, when properly applied, they are capable of withstanding the products handled by SK. The warehouse is completely enclosed to prevent precipitation from entering. In the event the buildings sprinkler system is activated, the secondary containment system should be sufficient to contain the water. Any firewater released to the secondary containment system will be properly characterized, and disposed of, according to federal, state, and local regulations.

Spills from containers are removed by a hand-held, portable electric pump (the COMS pump), wet-dry vacuum, or sorbent materials. Since the characteristics of the stored wastes are known, no analyses are performed for the materials collected from the containment area. All collected materials are sent to a RCRA permitted recycling/reclamation facility.

Any small spill which might occur would generally puddle where it was spilled. The spilled material would be cleaned up where it puddles or be manually directed to the containment trench. In the event that a large spill were to occur, some dispersion would be expected to occur based on the direction, force, and pathway obstacles presented by and to the spill. Only a catastrophic event would result in an exceedance of the 2,077-gallon containment capacity. In this case, once outside the containment area, the wastes would flow onto paved surfaces outside the building. These are the same surfaces that serve to protect soils and ground water from contamination due to spills occurring during loading/unloading.

Container Movement

In the container storage area, containers are handled with a hand-truck or forklift that is free of sharp points. Every time a drum is moved, a chance exists that it will be tipped over, dropped, or punctured. To minimize the possibility of spillage, containers are tightly covered and kept in an upright position. A small portable electric pump is available to quickly transfer the liquid from any leaking container into another safe container. Each route truck is equipped with a lift-gate or an electric hoist. These devices are used in the loading/unloading operation to minimize chances for spillage and/or employee injury. With the exception of parts washer solvent, drummed wastes may be loaded/unloaded at the dock on the west side of the building. The parts washer solvent is loaded/unloaded at the return/fill station.

All containers are transported, moved, and stored carefully in an upright position. Containers are palletized whenever possible to facilitate shipping and storage. Pallets may be stacked up to seven feet, or two high (whichever is higher), while in storage. This will prevent the containers from contacting standing liquid while they are in storage. At no time will containers be stored three high within the facility, either in the container storage area or the 10-day transfer area. Pallets may be shipped up to three high during transportation. The containers will be arranged so that a two-foot aisle space exists between all rows of pallets such that all containers can be readily visible for inspection and handling.

INCOMPATIBLE, IGNITABLE, AND REACTIVE WASTE MANAGEMENT

All materials are managed in accordance with the local fire protection code and fire department recommendations. All containerized ignitable wastes are stored at least 50 feet from the property line.

The facility does not routinely manage unwashed containers that may previously have held materials that would be incompatible with wastes stored at the facility. Also, the used parts washer solvents and used aqueous parts washer solvents consist of materials that are compatible and suitable for bulking.

Procedure for Managing Waste Types

The solvents stored at this facility are typically compatible with each other and with other materials handled at this facility. In some isolated instances, special waste segregation procedures may be necessary at this facility. Wastes are stored primarily in polyethylene and steel containers. Immersion cleaner, dry cleaning, paint waste, and FRS waste containers are never opened at the Branch. Over-pack containers are used for the management of containers whose integrity has been compromised. For ease of inventory control and product integrity, separation and grouping of both used and unused solvents is a standard practice at the Branch. All containers are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking, in accordance with DOT shipping container specifications.

Potential Fire Sources

The following is a list of fire prevention and minimization measures:

All wastes and products are kept away from ignitable sources – Personnel must
confine smoking and open flames to the Branch designated area which is located
outside the front door of the office area. No other smoking areas are designated.
The parts washer solvent handling area and the aboveground storage tanks are
separate from the warehouse area to minimize the potential for a fire to spread or
injury to personnel to occur.

- 2. *Ignitable wastes are handled so that they do not:*
 - become subject to extreme heat or pressure, fire, explosion, or a violent reaction – The parts washer solvent waste is stored in a tank or in containers, none of which are near sources of extreme heat, fire, potential explosion sources, or subject to violent reactions. The tanks are vented and the containers kept at room temperature to minimize the potential for pressure build-up.
 - produce uncontrolled toxic mists, fumes, dusts or gases in quantities sufficient to threaten human health The vapor pressure of petroleumbased parts washer solvent is low (2 mm Hg) and it is reactive with strong oxidizers only. Toxic mists, fumes, dusts, or gases will not form in quantities sufficient to threaten human health since strong oxidizers are carefully segregated at this facility and the solvent vaporization will be minimal under normal working conditions.
 - produce uncontrolled fires or gases in quantities sufficient to pose a risk of fire or explosion – See above and below.
 - damage the structural integrity of the Safety-Kleen facility The solvents stored at this facility will not cause deterioration of the tank, containers, or other structural components of the facility.
 - Per 40 CFR 264.17(b)(5), where specifically required by other sections of this part, the owner or operator (SK) of a facility that treats, stores or disposes ignitable or reactive waste, or mixes incompatible waste or incompatible wastes and other materials, must take precautions to prevent reactions which: through other like means threaten human health or the environment.
- 3. Adequate aisle space is maintained to allow the unobstructed movement of personnel, fire protection equipment, and decontamination equipment to any area of the facility operation in an emergency.
- 4. "NO SMOKING" signs are posted in areas where solvents are handled or stored.
- 5. Fire extinguishers are checked weekly by Branch personnel.

External Factors

The design of the facility is such that a harmful spill is highly unlikely to occur from most external factors. The storage tanks are inaccessible to non-Safety-Kleen personnel and the pump switches are located inside. Also, the container storage area is in a building which is inaccessible to unauthorized personnel.

- Vandalism Only extreme vandalism would result in a solvent spill or fire.
 Responses to spills and fires are described in the Contingency Plan (Section 5)
- 2. Employee Strikes A strike would not result in a solvent spill or fire.
- 3. *Power Failure* A power failure would not result in a spill or fire. Should a power failure occur, all activities requiring electricity will cease.
- 4. Flooding The site elevation is above the projected 100-year floodplain.
- 5. Storms or Cold Weather The solvent return/fill station is covered to eliminate the possibility of rain or snow entering the dumpsters. No opportunity is foreseen to affect the facility with snow, cold weather, or storm weather.
- 6. Hurricanes Facility will follow the procedures within the contingency plan.

Run On

The container storage area is 2' above grade in order to prevent and manage run on per 40 CFR Parts 264.175(b)(4) & 270.15(a)(4).

CONTAINER MANAGEMENT

General Protocols

Container management is of paramount importance to Safety-Kleen. All containers are routinely inspected to ensure that the containers are in good condition. If rusting or structural defects are visible, or if the container begins to leak, the contents of the container are immediately transferred to a new sound container. Over-pack containers are commonly used for the management of containers whose integrity has been compromised. Hazardous waste containers are always kept closed during storage except when adding or removing waste. Containers are not handled or stored in a manner that could potentially cause a rupture or leak.

Specific Waste Stream Containers

Parts washer solvent is collected in containers and generally emptied into the wet dumpster at the return/fill station (which is piped to the tank farm). The containers are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking, in accordance with DOT shipping container specifications.

The immersion cleaner is always contained in partially filled covered containers before, during, and after its use. Until received at the recycle center, the immersion cleaner is never transferred to another container. The containers of used immersion cleaner are returned to the facility and stored in the designated container storage area before shipment to a permitted Safety-Kleen/Clean Harbors TSDF.

Dry cleaning waste is stored in steel or polyethylene containers and consists of perchloroethylene-based waste and naptha-based waste. The contents of the dry cleaning waste containers are not removed or processed at the Sanford Branch. It is stored in the designated container storage area prior to shipment to a permitted Safety-Kleen, or Clean Harbors TSDF.

Paint wastes consist of various lacquer thinner and paints. The waste is collected in containers at the customer's location and the containers are then stored in the designated container storage area of the warehouse prior to shipment to a permitted Safety-Kleen, or Clean Harbors TSDF.

FRS wastes are stored in steel or polyethylene containers that are compatible with the material in them. FRS wastes are managed as transfer wastes.

As part of its protocol for handling mercury-containing lamps and devices destined for recycling, the Branch provides customers with four-foot and eight-foot boxes which hold up to 39 lamps. Boxes are inspected prior to transport from the customer to the Branch. Boxes containing broken lamps are not accepted by Safety-Kleen. If the lamps are broken while in the custody of Safety-Kleen, the entire contents of the box are sealed in plastic shrink wrap or transferred to another container and closed. The boxes are picked up at customer locations and are stored at the Branch in a designated area within the container storage area (Figure 8-1). The boxes used to store mercury-containing lamps and devices are labeled in accordance with Florida Administrative Code (FAC) 62-737.400(5)(b). The boxes are periodically shipped to a permitted mercury recovery or reclamation facility.

Safety-Kleen sells its' own private label antifreeze in 55-gallon containers. Customers will then place used antifreeze in these containers to be shipped back to the branch. These containers are stored in the warehouse until being is shipped to SK distribution centers. From there the used antifreeze is shipped to 3rd party recyclers.

Safety-Kleen handles all types of batteries with the exception of lithium batteries. Batteries are stored in 5- and 16-gallon poly containers. Lead acid batteries may be stored on pallets secured by plastic straps. All applicable batteries, per 40 CFR Part 273.2 & 273.9, are managed in accordance with the Standards For Universal Waste Management found in 40 CFR Part 273. Batteries not meeting those standards may be managed as 10-day transfer waste.

CONTAINER INSPECTION

The purpose of the container inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management and other material management facilities to ensure proper operation, maintain compliance, and prevent the release of hazardous wastes to the environment. The Branch Manager or designee is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule.

Inspections are completed electronically (CO CSA Inspection). In the event the system is unavailable they may be completed manually on paper (Figure 8.4-1). Examples of the inspection logs (Electronic & Paper) for the container storage area and associated loading/unloading areas are presented at the end of Part II.B. Container storage area inspections include the following:

- Verify that total volume is within permitted limits.
- Physically examine the condition of containers to verify that leaks have not occurred since the last inspection;
- Note the number, condition, observations made, and any date and nature of repairs or other remedial actions for hazardous waste containers generated by the Safety-Kleen branch;
- Verify that all container identification, dates, and hazardous waste labels are attached and current;
- inspect container placement and stacking such as aisle space, height, and stability of stacks; and
- Examine containment areas to detect signs of deterioration and failure of the containment system such as cracks, breakage, settlement, and spillage.

As deficiencies are detected, the Branch Manager will ensure that they are remedied promptly. Any deficiencies which could create an environmental or human health hazard will be rectified immediately.

Other inspections at the facility include those performed on a weekly basis for the security systems. These inspections are described in the contingency plan.

CONTAINER STORAGE AREA CLOSURE PLAN

The container storage area closure plan and closure cost estimates are provided as part of the overall closure plan for the facility in Part II K.

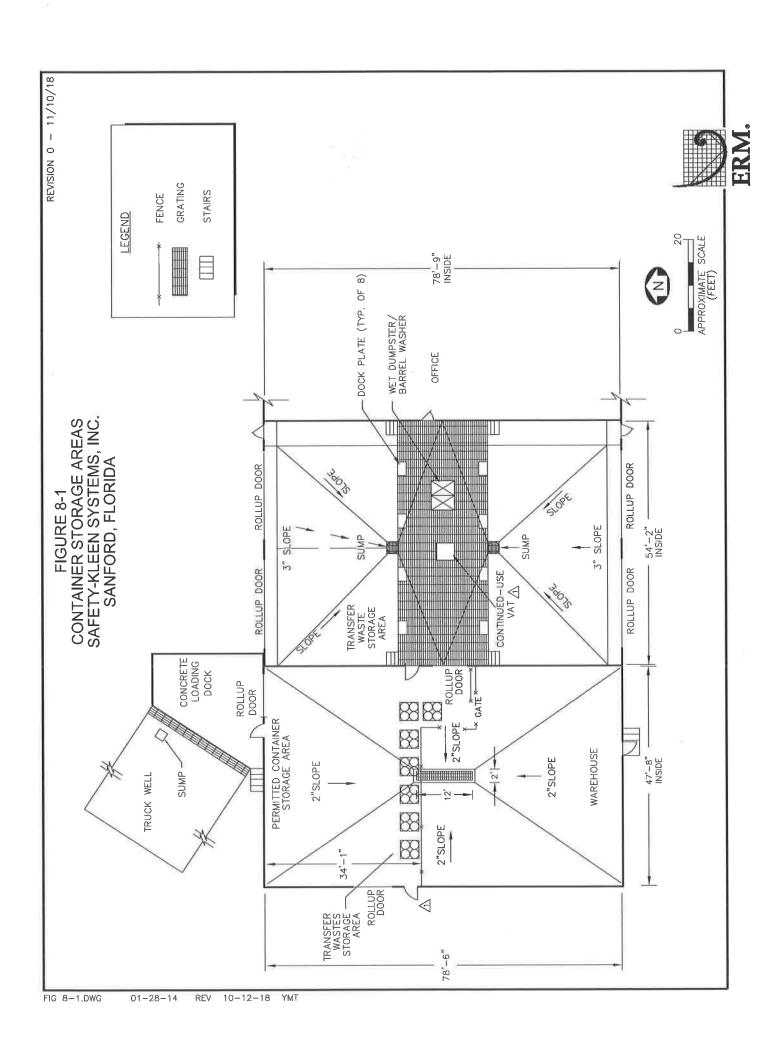
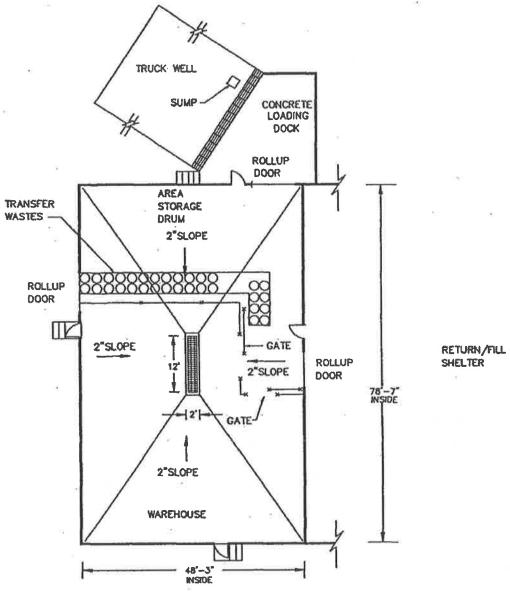
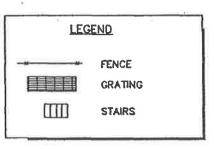


Figure 8-3 Container Storage Area Safety-Kleen Corp. Facility Sanford, Florida





REVISION 1 - 02-15-93

Note: Transfer waste drums may be double stacked in the designated area only when there is no more floor space available in the designated area.

RECEIVED

APR 14 1913

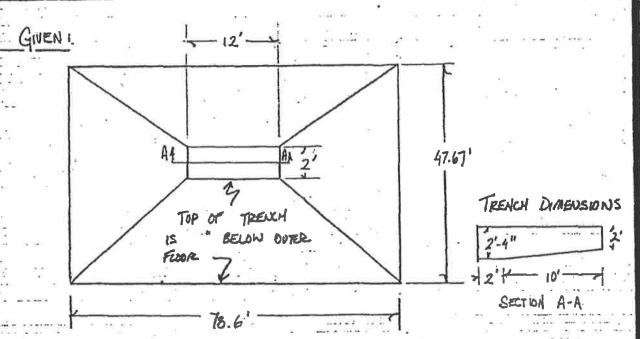


\sim	ETANG C	
12171	ERM-South,	inc.

)	Environmental	Resources	Management
	Descript describution step and	Massacian can	T. Level Late A. A. C. C. L. L. C.

Project SA	FEM - KLEEN S	WFORD	W.O. No. /3//320	.22 Sheet of
Subject	(4)	*	By_ <i>V.H</i>	Date/_/8/93
	DOED SHIPPE	AMENDELAS	Chied blue	Nate

DETERMINE: CONTAINMENT VOLUME OF WAREHOUSE AREA (DRUM STORAGE)



NOTE: FLOOR PLAN DIMENSIONS WERE THEASURED DURING THE ERM SITE VISIT PERFORMED 1/6/93. The 2" SLOPE COULD NOT BE MEASURED, BUT WAS ASSUMED CORRECT FOR PURPOSES OF THESE CALCULATIONS.

ASSUMPTIONS: ASSUME FLOOR CONFIGURATION IS SIMILAR TO THE FRUSTRUM

OF A PYRAMID, AND APPLY THE VOLUME FORMULA FOR A

FRUSTRUM.

FRUSTRUM.

FLOOR YOLVINE:

= 1,680 GALLONS

TREACH VOLUME:

(2x2x2,33) + ((2,33+2)/2 x 10 x2) = 53 A3 = 396 GAUSNS

TOTAL VOLUME: 2246 A 4 53 G = 277.6 A = 2,077 GALLONS



CO CSA Inspection

Form Code: 28

Compliance Header Inspector Name Area of Inspection Inspection Date and Time **CO CSA Inspection Instructions** Note condition of inspection items. If item does not apply to an area, mark N/A. All unsatisfactory findings must be explained below. Include any repairs, changes or other remedial actions required or performed. CO CSA Inspection Items Container Placement and Stacking - Check for evidence of failure (e.g., containers on pallets, pallets too high, unstable, other). Sealing of Containers - Check for evidence of failure (e.g., containers not closed or sealed. open). Labeling of Containers - Check for evidence of failure (e.g., no label, improper label, content, other). Container Integrity - Check for evidence of failure (e.g., condition, bulging, leaks, rust, corrosion, other). Pallets - Check for evidence of failure (e.g., broken, loose, condition). Doors - Check for evidence of failure (e.g., indoor area, broken or not working as intended). Base/ Foundation/ Roof - Check for evidence of failure (e.g., cracked, gaps, other). Berms/ Racks - Check for evidence of failure (e.g., cracks, gaps, broken, other).

Debris and Refuse - Check for evidence of failure (e.g., proper storage, location, container type, other).	
Exit Signs - Check for evidence of failure (e.g. missing, lamps, battery backup, other).	
Aisle Space - Check for evidence of failure (e.g., minimum 2 ft required, other).	
Containment Area - Check for evidence of failure (e.g., secondary containment, curbing, floor, cracks, deterioration, ponding or wet spots, other).	
Sumps - Check for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, other).	
Loading/ Unloading Areas - Check condition of area (e.g., available equipment, spill response, containment, pad condition, valve access box, ponding or wet spots, other).	
Communication and Alarm System - Check for evidence of failure (e.g., test function, siren, strobe, other).	
Storage Capacity - Check for acceptable limit (e.g., area or permit retrictions, type restriction, volume limit, other).	
Bonding and Grounding - Check for evidence of failure (e.g., loose, broken, corrosion or deterioration, other).	
Pumps - Check for evidence of failure (e.g., deterioration or broken, leaks, othér).	
Inventory Age - Check for acceptable limit (e.g., within area limits, permit restrictions, other).	
Satellite Accumulation Containers - Check for condition and appropriate for area (e.g., filter/basket, solids, label and marking, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	

Inspection Overall Assessment	



CO Branch Generated Hazardous Waste Container Inspection Log

Form Code: 1423

Compliance Header	
Inspector Name	, and the second
Area of Inspection	
Inspection Date and Time	
CO Branch Generated Hazardous Waste Inspec	ion Instruction
Note the condition of inspection items. Note the reparameter hazardous waste containers ony (10-day transfer apply). All unsatisfactoryf findings must be explain other remedial actions required or performed.	containers collected from customers do not
CO Branch Generated Hazardous Waste Contain	ner Inspection Log Items
Number of branch generated hazardous waste containers in storage area:	
Capacity of branch generated hazardous waste containers in storage area (16, 30, 55, 85, etc.):	
Notation of observations made (acceptable/not acceptable condition, correct labels, leaking, etc.)	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Figure 8.4-1 (page #1) Safety-Kleen Sanford, Florida

Daily Inspection of Warehouse Container Storage Area – Maximum Permitted Volume 6,912 gallons Inspectors Name/Title:

	Monday	Tuesday	Wednesday	Thursday	Frie	day
10						
	DATE (MM/DD/YY)					
			ā	N ((<u></u>	-	
	TIME	220 P		Maria de la constitución	Thomas	Putday.
D	Volume in containers	Monday	Tuesday	Wednesday	Thursday	Friday
	h Generated – 55 gallon					
	c samples – 55 gallon					
	Oil Filters – 30 gallon					
	Oil Filters – 55 gallon					
	rsion Cleaner					
	Waste – 55 gallon					
	Waste – 30 gallon					
Paint '	Waste – 16 gallon					
Paint '	Waste – 5 gallon					
Dry Cl	ean – 16 gallon					
Dry Cl	ean – 30 gallon	V				
Dry Cl	ean Filters – 16 gallon					
Dry Cl	ean Filters – 30 gallon					
Oil Fil	ters – 55 gallon					
Used .	Antifreeze – 55 gallon					
Used	Solvent					
Silver	recovery – 5 gallon					
	recovery – 20 gallon					
TOTA	L VOLUME (GALLONS)	1				
Batte	ries – 5 gallon			1		
	ries – 16 gallon					
	escent bulbs – 4 ft.					
	escent bulbs – 8 ft.					
	ury Devices					
,	Transfer Storage Area	\$				
FRS -	5 gallon					
	16 gallon					
	30 gallon					
	55 gallon					
	85 gallon					
	350 gallon tote	-				
	gler bag/Gaylord					
vvran	Rici naR\aalioin					

Figure 8.4-1 (page #2)

Waste Vo	olume: f "N", what is the		N ison:		N	A	N	Α	N	Α	N
It	n of Containers: f "N" circle appreaks, distortion,	opria	ate proble		g or lo	oose lids, incor					N
l	/Placement/Ais f "N" circle appr unstable, broken	A opria	N ate proble		nt fro						N
(ment: Curbing, floor ar Any material wh within 24 hours of deterioration (cr	nich of be	accumula eing disco	vered) If "	econo	dary containme	e prol	ust be compolem: pond	ing/	ely removeo	
	Loading/Unload	Α	N		N	A erioration, pon	N ding/	A wet spots, c	N othe		N
	tions, comment ble" (N):								as "	Not	

A = Acceptable N = Not Acceptable

Part II

C. TANK SYSTEM

ENGINEERING ASSESSMENT OF TANK SYSTEM

An engineering assessment of the tank system was conducted in September 2013. Another engineering assessment of the tank system will be conducted within 10 years of the September 2013 integrity assessment.

TANK SYSTEM SPECIFICATIONS

The facility includes five aboveground steel tanks. Four 20,000- gallon steel tanks in the above ground storage tank farm, and one 12,000-gallon double walled steel tank adjacent to the tank farm (Figure 9.2-1). Hazardous waste used parts washer solvent is returned from Safety-Kleen's customers in containers and the solvent is transferred via the wet dumpsters into a 20,000-gallon tank, prior to bulk shipment to Safety-Kleen recycle center. The other four tanks, include two 20,000-gallon tanks (Used Oil), and one 20,000-gallon tank (Clean Solvent), and one 12,000 gallon tank (Used Antifreeze). These four tanks are not considered RCRA tanks. All of the tanks are grounded.

Material Compatibility

Waste stored in the RCRA tank at this facility is used parts washer solvent. The parts washer solvent is compatible with the mild steel tank structure. As with all petroleum storage vessels, water will accumulate over time due to condensation and the water will accumulate in the bottom of the tank.

Tank Operation Procedures and Design

Used solvent is returned from customers via containers and poured into the wet dumpsters which have barrel washers enclosed within them. The container is then placed on roller brushes within the barrel washer. As the machine is turned on, the container rotates on the brush and the outside of the container is cleaned. A nozzle in the barrel washer sprays a stream of solvent into the bottom of the container to flush the inside of

the container. The machine is then turned off and the container is removed. This process takes several seconds per container. The container is then refilled with clean solvent using a pump and nozzle assembly similar to a gasoline dispenser. The waste is transferred to the tank via piping and a pump.

The used solvent is fed to a sump in the bottom of the wet dumpster and automatically pumped to the used parts washer solvent storage tank. A basket within the sump collects sludge from the cleaning operations. Periodically, this basket is removed and sludge is removed and placed into a sludge drum for disposal. The wet dumpsters are located in the return/fill station, which is underlain by a secondary containment structure.

The used solvent storage tank is designed and constructed to be compatible with the materials stored. The tank has an emergency vent and pressure/vacuum vent that were installed in accordance with National Fire Protection Association (NFPA) standards, and is equipped with a high-level alarm. A 3" emergency gate valve is located at the base of the tank where the outgoing piping is threaded into the tank. The tank seams are lapped with full fillet welds. The weld was performed with an E70 electrode and can withstand a 4-psi air pressure test (which is performed by the manufacturer). The used solvent tank was installed new in 1991. The tank is aboveground, supported by an insulated carbon steel skirt that is anchored to a concrete pad. The tank is supported on an 8-inch skid that is placed on an 8-inch concrete foundation slab. Therefore, no surface run-on will contact the wastes stored at the site and no run-off collection system is required. To minimize the amount of precipitation that may collect inside the containment area, a canopy has been installed over the tank farm. If rainwater does accumulate in the containment area and it has been verified that no spill has occurred, the rainwater will be discharged to the ground surface. Only the Branch Manager or someone operating under his/her direct orders may discharge to the ground surface. If it is not possible to verify that a spill has not occurred, the rainwater will be disposed of in the wet dumpsters.

Controls and Spill Prevention

The tank farm dike and the return/fill station have been sealed with a chemical resistant

Automatic Tank Gauge (information on the gauge is provided at the end of this section). Level gauges are used to measure liquid levels in tanks. Float switch-activated automatic high level alarms (which consist of a strobe light and siren) signal the tanks being 95% full. This alarm allows an operator more than two minutes to stop operations and avoid overfilling the tank. The gauges of the tank are read before filling the tank with additional material. Tank level readings are also taken prior to the filling of a tanker truck to prevent overfilling of the truck or tank. A tanker truck provided with a suction pump is used to withdraw used parts washer solvent from the tank. No other equipment or standby equipment is used in the operation of the above-ground tanks. The tank should be operated at a maximum volume of 19,000 gallons (95% of capacity). The secondary containment under the tanks and return/fill station is cleaned within 24 hours of a spill, or in as timely a manner as possible, to prevent harm to human health and the environment.

2" single-walled steel piping from the wet dumpsters in the return/fill area to the top of the hazardous waste solvent tank is connected by threaded connectors. This piping runs under the dock and leaves the warehouse building on the south side of the return/fill station. At that point the piping system continues south towards the tank farm and is outside secondary containment (this part of the system has welded connectors). Once it reaches tank farm secondary containment the piping runs vertical to the top of the tank. The piping system leaving the tank is constructed of 3" single-walled steel and is inside secondary containment. Figure 9.1-1 details the system.

Leak Detection System

The Safety-Kleen Sanford branch has installed an automatic leak detection system at the above ground storage tank farm for the hazardous waste solvent tank. This system will enable detection of leaks, or releases, to the secondary containment 24-hours a day. The system consists of an Intellipoint sensor, which is placed beside the tank at the base of the

secondary containment structure. The sensor detects the presence or absence of liquids. It will be monitored 24-hours a day, seven days a week, by a 3rd party (Protection One). If the sensor detects liquid it will immediately send a warning notice to Protection One, who will then immediately call the emergency coordinator for the Sanford branch. This system will allow continuous leak detection monitoring when the facility is not occupied.

IGNITABLE OR REACTIVE WASTE REQUIREMENT (40 CFR PART 264.198(b))

The owner or operator of a facility where ignitable or reactive waste is stored or treated in a tank must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981), (incorporated by reference, see Sec. 260.11) (264.198(b)).

TANK SYSTEM SECONDARY CONTAINMENT

Tank Containment

The three tanks in the above ground storage tank farm are underlain by a 56'7" x 38'8" concrete slab, surrounded by a 3' high concrete wall. The wall height in the containment varies with the floor slope and directs flow toward an approximately 35-gallon blind sump. No surface run-on or precipitation will contact with the wastes stored in the tank farm and no run-off collection and management system is deemed necessary. A metal canopy installed over the tank farm minimizes the chance of precipitation accumulating inside the containment area. The layout of the tank farm is shown in Figure 9.2-1. Tank farm containment calculations are shown in Figure 9.2-2. Containment volume was estimated to be 28,092 gallons. This volume represents greater than 100 percent of the capacity of the largest tank within the containment area. The containment areas have been coated with Sikagard® 62 or equivalent. Inspections of the sealant in the containment areas will be conducted as described in Tank System Inspections. If the sealant is found to be worn or deteriorated such that repairs are warranted, the sealant will be repaired in accordance with manufacturers' specifications.

Return/Fill Containment

The return/fill station is a 54' 2" x 78' 9" structure (Figure 9.3-1) located between the office building and warehouse. It contains two wet dumpsters which handle the flow of waste solvent to the hazardous waste storage tank. These dumpsters are not intended for storage but can hold a maximum of 216 gallons (108 gallons per dumpster).

The area is designed such that the route trucks can be backed into the containment area. The roof extends over the truck unloading area so that no precipitation can get into the return/fill station containment area. The containment for the return/fill station is provided by two blind sumps, with a total capacity of approximately 69-gallons. The floor in the return/fill station is sloped to direct flow toward the two sumps. The total containment was estimated to be 5,011-gallons, as shown in Figure 9.2-2.

TANK SYSTEM INSPECTIONS

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management and other material management facilities to ensure proper operation and maintain compliance. The Branch Manager or that person's designee is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule. Figure 9.4-1 is an example Daily Inspection Log for the tank system. This Daily Inspection Log, or equivalent, will be used during daily inspections. Daily inspections of the tank and dumpsters will consist of the following:

- Note volume in tank.
- Observe tank exterior for loose anchoring, wet spots, leaks.
- Check the automatic high level alarm. In addition, measure the depth of used solvent in the tank to confirm the proper functioning of the automatic alarm system and to determine unexpected deviations in tank measuring data, or a sudden drop in liquid level, which may indicate leakage.
- Inspect secondary containment coating, walls, and piping (All piping is above ground).
- Inspect transfer pumps for leaking seals and overheated motors.

- Inspect the solvent dispensing hose, fittings, and valve for any leaks, damage, or wear that could cause a leak to develop.
- Inspect the valves for evidence of leaking. Stem leaks from worn glands and warped valve bodies should be repaired. If the valve cannot be repaired, replace the unit.

Also, the tanks will be visually inspected and tested periodically. The period of time between tank inspections, including shell thickness testing, will not exceed ten years. This time frame for tank inspection is adequate based on Safety-Kleen's experience at its other facilities in Florida. Daily inspection of the solvent return receptacle (wet dumpster) will consist of an inspection for leaks and excess dumpster mud build-up.

TANK SYSTEM CLOSURE AND CONTINGENT POST-CLOSURE PLAN

The tank system closure plan is provided as part of the overall closure plan for the facility in Part 2 K. As discussed below, a contingent post-closure plan for the tanks is not required.

TANK SYSTEM CONTIGENT POST-CLOSURE PLAN

The tank system at the Sanford facility meets the secondary containment requirements of 40 CFR 264.193, and is, therefore, not required to have a contingent post-closure plan under 40 CFR 264.197(c). In addition, Safety-Kleen intends to remove or decontaminate all tank system components, associated containment systems, and contaminated soils (if any) at the time of closure. However, should future conditions indicate that all contaminated soils and tank system components cannot practicably be decontaminated or removed, then a plan to perform post-closure care in accordance with the post-closure care requirements that apply to landfill (40 CFR 264.310) will be prepared for implementation upon FDEP approval.

RESPONSE TO LEAKS AND DISPOSITION OF UNFIT-FOR-USE TANK SYSTEMS

In the event that a leak or spill were to occur from a tank system or secondary containment system, the actions identified herein will be undertaken.

Immediate Response

All waste flow to the tank system in question will be ceased immediately. An inspection will be undertaken to identify the cause of the release. Waste flow to the tank system will not resume until the tank system has been inspected, repaired, and declared fit for use. In order to prevent further releases, or to allow inspection and a repair of the system, it may be necessary to remove the waste from the tank system. This waste removal will occur within 24 hours after detection of the leak, or at the earliest practicable time.

All material released to the secondary containment area will be removed within 24 hours, or in as timely a manner as possible, to prevent harm to human health and the environment. Every reasonable effort will be made to prevent migration of the release to soils or surface water. If necessary, visible contamination of surface water and soil will be removed and properly disposed of.

Notifications

Spills less than, or equal to one pound are exempt from reporting requirements per 40 CFR Part 264.196(d)(2). All other releases require notification as described in the Contingency Plan.

Subsequent Reporting

Subsequent reporting will be completed as referenced in the facility Contingency Plan.

Repair or Closure

If the integrity of the containment system has not been damaged, the system may be returned to service as soon as the released waste is removed and repairs, if necessary, are made. If the tank was the source of the release, the tank must be repaired prior to returning the tank system to service. If the release was from a tank system component which did not have secondary containment, then secondary containment must be provided for this component before the system can be returned to service. The exception to this is if the component can be visually inspected. In this instance, the component may be repaired and returned to service. If a component is replaced, the component must satisfy the requirements for new tank systems and components.

All major repairs must be certified by an independent, registered, professional engineer in accordance with 40 CFR 264.196(f). The engineer must certify that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. This report must be placed in the operating record and maintained until closure of the facility.

If repairs that meet these requirements cannot be performed, the tank system must be closed in accordance with the closure plan.

Part II

C. TANK SYSTEM

ENGINEERING ASSESSMENT OF TANK SYSTEM

An engineering assessment of the tank system was conducted in September 2013.

Another engineering assessment of the tank system will be conducted within 10 years of the September 2013 integrity assessment.

TANK SYSTEM SPECIFICATIONS

The facility includes five aboveground steel tanks. Four 20,000- gallon steel tanks in the above ground storage tank farm, and one 12,000-gallon double walled steel tank adjacent to the tank farm (Figure 9.2-1). Hazardous waste used parts washer solvent is returned from Safety-Kleen's customers in containers and the solvent is transferred via the wet dumpsters into a 20,000-gallon tank, prior to bulk shipment to Safety-Kleen recycle center. The other four tanks, include two 20,000-gallon tanks (Used Oil), and one 20,000-gallon tank (Clean Solvent), and one 12,000 gallon tank (Used Antifreeze). These four tanks are not considered RCRA tanks. All of the tanks are grounded.

Material Compatibility

Waste stored in the RCRA tank at this facility is used parts washer solvent. The parts washer solvent is compatible with the mild steel tank structure. As with all petroleum storage vessels, water will accumulate over time due to condensation and the water will accumulate in the bottom of the tank.

Tank Operation Procedures and Design

Used solvent is returned from customers via containers and poured into the wet dumpsters which have barrel washers enclosed within them. The container is then placed on roller brushes within the barrel washer. As the machine is turned on, the container rotates on the brush and the outside of the container is cleaned. A nozzle in the barrel washer sprays a stream of solvent into the bottom of the container to flush the inside of

the container. The machine is then turned off and the container is removed. This process takes several seconds per container. The container is then refilled with clean solvent using a pump and nozzle assembly similar to a gasoline dispenser. The waste is transferred to the tank via piping and a pump.

The used solvent is fed to a sump in the bottom of the wet dumpster and automatically pumped to the used parts washer solvent storage tank. A basket within the sump collects sludge from the cleaning operations. Periodically, this basket is removed and sludge is removed and placed into a sludge drum for disposal. The wet dumpsters are located in the return/fill station, which is underlain by a secondary containment structure.

The used solvent storage tank is designed and constructed to be compatible with the materials stored. The tank has an emergency vent and pressure/vacuum vent that were installed in accordance with National Fire Protection Association (NFPA) standards, and is equipped with a high-level alarm. A 3" emergency gate valve is located at the base of the tank where the outgoing piping is threaded into the tank. The tank seams are lapped with full fillet welds. The weld was performed with an E70 electrode and can withstand a 4-psi air pressure test (which is performed by the manufacturer). The used solvent tank was installed new in 1991. The tank is aboveground, supported by an insulated carbon steel skirt that is anchored to a concrete pad. The tank is supported on an 8-inch skid that is placed on an 8-inch concrete foundation slab. Therefore, no surface run-on will contact the wastes stored at the site and no run-off collection system is required. To minimize the amount of precipitation that may collect inside the containment area, a canopy has been installed over the tank farm. If rainwater does accumulate in the containment area and it has been verified that no spill has occurred, the rainwater will be discharged to the ground surface. Only the Branch Manager or someone operating under his/her direct orders may discharge to the ground surface. If it is not possible to verify that a spill has not occurred, the rainwater will be disposed of in the wet dumpsters.

Controls and Spill Prevention

The tank farm dike and the return/fill station have been sealed with a chemical resistant

coating. The hazardous waste solvent tank has been fitted with a Moormann Analog Automatic Tank Gauge (information on the gauge is provided at the end of this section). Level gauges are used to measure liquid levels in tanks. Float switch-activated automatic high level alarms (which consist of a strobe light and siren) signal the tanks being 95% full. This alarm allows an operator more than two minutes to stop operations and avoid overfilling the tank. The gauges of the tank are read before filling the tank with additional material. Tank level readings are also taken prior to the filling of a tanker truck to prevent overfilling of the truck or tank. A tanker truck provided with a suction pump is used to withdraw used parts washer solvent from the tank. No other equipment or standby equipment is used in the operation of the above-ground tanks. The tank should be operated at a maximum volume of 19,000 gallons (95% of capacity). The secondary containment under the tanks and return/fill station is cleaned within 24 hours of a spill, or in as timely a manner as possible, to prevent harm to human health and the environment.

2" single-walled steel piping from the wet dumpsters in the return/fill area to the top of the hazardous waste solvent tank is connected by threaded connectors. This piping runs under the dock and leaves the warehouse building on the south side of the return/fill station. At that point the piping system continues south towards the tank farm and is outside secondary containment (this part of the system has welded connectors). Once it reaches tank farm secondary containment the piping runs vertical to the top of the tank. The piping system leaving the tank is constructed of 3" single-walled steel and is inside secondary containment. Figure 9.1-1 details the system.

Leak Detection System

The Safety-Kleen Sanford branch has installed an automatic leak detection system at the above ground storage tank farm for the hazardous waste solvent tank. This system will enable detection of leaks, or releases, to the secondary containment 24-hours a day. The system consists of an Intellipoint sensor, which is placed beside the tank at the base of the

secondary containment structure. The sensor detects the presence or absence of liquids. It will be monitored 24-hours a day, seven days a week, by a 3rd party (Protection One). If the sensor detects liquid it will immediately send a warning notice to Protection One, who will then immediately call the emergency coordinator for the Sanford branch. This system will allow continuous leak detection monitoring when the facility is not occupied.

IGNITABLE OR REACTIVE WASTE REQUIREMENT (40 CFR PART 264.198(b))

The owner or operator of a facility where ignitable or reactive waste is stored or treated in a tank must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981), (incorporated by reference, see Sec. 260.11) (264.198(b)).

TANK SYSTEM SECONDARY CONTAINMENT

Tank Containment

The three tanks in the above ground storage tank farm are underlain by a 56'7" x 38'8" concrete slab, surrounded by a 3' high concrete wall. The wall height in the containment varies with the floor slope and directs flow toward an approximately 35-gallon blind sump. No surface run-on or precipitation will contact with the wastes stored in the tank farm and no run-off collection and management system is deemed necessary. A metal canopy installed over the tank farm minimizes the chance of precipitation accumulating inside the containment area. The layout of the tank farm is shown in Figure 9.2-1. Tank farm containment calculations are shown in Figure 9.2-2. Containment volume was estimated to be 28,092 gallons. This volume represents greater than 100 percent of the capacity of the largest tank within the containment area. The containment areas have been coated with Sikagard® 62 or equivalent. Inspections of the sealant in the containment areas will be conducted as described in Tank System Inspections. If the sealant is found to be worn or deteriorated such that repairs are warranted, the sealant will be repaired in accordance with manufacturers' specifications.

Return/Fill Containment

The return/fill station is a 54' 2" x 78' 9" structure (Figure 9.3-1) located between the office building and warehouse. It contains two wet dumpsters which handle the flow of waste solvent to the hazardous waste storage tank. These dumpsters are not intended for storage but can hold a maximum of 216 gallons (108 gallons per dumpster).

The area is designed such that the route trucks can be backed into the containment area. The roof extends over the truck unloading area so that no precipitation can get into the return/fill station containment area. The containment for the return/fill station is provided by two blind sumps, with a total capacity of approximately 69-gallons. The floor in the return/fill station is sloped to direct flow toward the two sumps. The total containment was estimated to be 5,011-gallons, as shown in Figure 9.2-2.

TANK SYSTEM INSPECTIONS

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management and other material management facilities to ensure proper operation and maintain compliance. The Branch Manager or that person's designee is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule. Figure 9.4-1 is an example Daily Inspection Log for the tank system. This Daily Inspection Log, or equivalent, will be used during daily inspections. Daily inspections of the tank and dumpsters will consist of the following:

- Note volume in tank.
- Observe tank exterior for loose anchoring, wet spots, leaks.
- Check the automatic high level alarm. In addition, measure the depth of used solvent in the tank to confirm the proper functioning of the automatic alarm system and to determine unexpected deviations in tank measuring data, or a sudden drop in liquid level, which may indicate leakage.
- Inspect secondary containment coating, walls, and piping (All piping is above ground).
- Inspect transfer pumps for leaking seals and overheated motors.

- Inspect the solvent dispensing hose, fittings, and valve for any leaks, damage, or wear that could cause a leak to develop.
- Inspect the valves for evidence of leaking. Stem leaks from worn glands and warped valve bodies should be repaired. If the valve cannot be repaired, replace the unit.

Also, the tanks will be visually inspected and tested periodically. The period of time between tank inspections, including shell thickness testing, will not exceed ten years. This time frame for tank inspection is adequate based on Safety-Kleen's experience at its other facilities in Florida. Daily inspection of the solvent return receptacle (wet dumpster) will consist of an inspection for leaks and excess dumpster mud build-up.

TANK SYSTEM CLOSURE AND CONTINGENT POST-CLOSURE PLAN

The tank system closure plan is provided as part of the overall closure plan for the facility in Part 2 K. As discussed below, a contingent post-closure plan for the tanks is not required.

TANK SYSTEM CONTIGENT POST-CLOSURE PLAN

The tank system at the Sanford facility meets the secondary containment requirements of 40 CFR 264.193, and is, therefore, not required to have a contingent post-closure plan under 40 CFR 264.197(c). In addition, Safety-Kleen intends to remove or decontaminate all tank system components, associated containment systems, and contaminated soils (if any) at the time of closure. However, should future conditions indicate that all contaminated soils and tank system components cannot practicably be decontaminated or removed, then a plan to perform post-closure care in accordance with the post-closure care requirements that apply to landfill (40 CFR 264.310) will be prepared for implementation upon FDEP approval.

RESPONSE TO LEAKS AND DISPOSITION OF UNFIT-FOR-USE TANK SYSTEMS

In the event that a leak or spill were to occur from a tank system or secondary containment system, the actions identified herein will be undertaken.

Immediate Response

All waste flow to the tank system in question will be ceased immediately. An inspection will be undertaken to identify the cause of the release. Waste flow to the tank system will not resume until the tank system has been inspected, repaired, and declared fit for use. In order to prevent further releases, or to allow inspection and a repair of the system, it may be necessary to remove the waste from the tank system. This waste removal will occur within 24 hours after detection of the leak, or at the earliest practicable time.

All material released to the secondary containment area will be removed within 24 hours, or in as timely a manner as possible, to prevent harm to human health and the environment. Every reasonable effort will be made to prevent migration of the release to soils or surface water. If necessary, visible contamination of surface water and soil will be removed and properly disposed of.

Notifications

Spills less than, or equal to one pound are exempt from reporting requirements per 40 CFR Part 264.196(d)(2). All other releases require notification as described in the Contingency Plan.

Subsequent Reporting

Subsequent reporting will be completed as referenced in the facility Contingency Plan.

Repair or Closure

If the integrity of the containment system has not been damaged, the system may be returned to service as soon as the released waste is removed and repairs, if necessary, are made. If the tank was the source of the release, the tank must be repaired prior to returning the tank system to service. If the release was from a tank system component which did not have secondary containment, then secondary containment must be provided for this component before the system can be returned to service. The exception to this is if the component can be visually inspected. In this instance, the component may be repaired and returned to service. If a component is replaced, the component must satisfy the requirements for new tank systems and components.

All major repairs must be certified by an independent, registered, professional engineer in accordance with 40 CFR 264.196(f). The engineer must certify that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. This report must be placed in the operating record and maintained until closure of the facility.

If repairs that meet these requirements cannot be performed, the tank system must be closed in accordance with the closure plan.

Part II

C. TANK SYSTEM

ENGINEERING ASSESSMENT OF TANK SYSTEM

An engineering assessment of the tank system was conducted in September 2013.

Another engineering assessment of the tank system will be conducted within 10 years of the September 2013 integrity assessment.

TANK SYSTEM SPECIFICATIONS

The facility includes five aboveground steel tanks. Four 20,000- gallon steel tanks in the above ground storage tank farm, and one 12,000-gallon double walled steel tank adjacent to the tank farm (Figure 9.2-1). Hazardous waste used parts washer solvent is returned from Safety-Kleen's customers in containers and the solvent is transferred via the wet dumpsters into a 20,000-gallon tank, prior to bulk shipment to Safety-Kleen recycle center. The other four tanks, include two 20,000-gallon tanks (Used Oil), and one 20,000-gallon tank (Clean Solvent), and one 12,000 gallon tank (Used Antifreeze). These four tanks are not considered RCRA tanks. All of the tanks are grounded.

Material Compatibility

Waste stored in the RCRA tank at this facility is used parts washer solvent. The parts washer solvent is compatible with the mild steel tank structure. As with all petroleum storage vessels, water will accumulate over time due to condensation and the water will accumulate in the bottom of the tank.

Tank Operation Procedures and Design

Used solvent is returned from customers via containers and poured into the wet dumpsters which have barrel washers enclosed within them. The container is then placed on roller brushes within the barrel washer. As the machine is turned on, the container rotates on the brush and the outside of the container is cleaned. A nozzle in the barrel washer sprays a stream of solvent into the bottom of the container to flush the inside of

the container. The machine is then turned off and the container is removed. This process takes several seconds per container. The container is then refilled with clean solvent using a pump and nozzle assembly similar to a gasoline dispenser. The waste is transferred to the tank via piping and a pump.

The used solvent is fed to a sump in the bottom of the wet dumpster and automatically pumped to the used parts washer solvent storage tank. A basket within the sump collects sludge from the cleaning operations. Periodically, this basket is removed and sludge is removed and placed into a sludge drum for disposal. The wet dumpsters are located in the return/fill station, which is underlain by a secondary containment structure.

The used solvent storage tank is designed and constructed to be compatible with the materials stored. The tank has an emergency vent and pressure/vacuum vent that were installed in accordance with National Fire Protection Association (NFPA) standards, and is equipped with a high-level alarm. A 3" emergency gate valve is located at the base of the tank where the outgoing piping is threaded into the tank. The tank seams are lapped with full fillet welds. The weld was performed with an E70 electrode and can withstand a 4-psi air pressure test (which is performed by the manufacturer). The used solvent tank was installed new in 1991. The tank is aboveground, supported by an insulated carbon steel skirt that is anchored to a concrete pad. The tank is supported on an 8-inch skid that is placed on an 8-inch concrete foundation slab. Therefore, no surface run-on will contact the wastes stored at the site and no run-off collection system is required. To minimize the amount of precipitation that may collect inside the containment area, a canopy has been installed over the tank farm. If rainwater does accumulate in the containment area and it has been verified that no spill has occurred, the rainwater will be discharged to the ground surface. Only the Branch Manager or someone operating under his/her direct orders may discharge to the ground surface. If it is not possible to verify that a spill has not occurred, the rainwater will be disposed of in the wet dumpsters.

Controls and Spill Prevention

The tank farm dike and the return/fill station have been sealed with a chemical resistant

Automatic Tank Gauge (information on the gauge is provided at the end of this section). Level gauges are used to measure liquid levels in tanks. Float switch-activated automatic high level alarms (which consist of a strobe light and siren) signal the tanks being 95% full. This alarm allows an operator more than two minutes to stop operations and avoid overfilling the tank. The gauges of the tank are read before filling the tank with additional material. Tank level readings are also taken prior to the filling of a tanker truck to prevent overfilling of the truck or tank. A tanker truck provided with a suction pump is used to withdraw used parts washer solvent from the tank. No other equipment or standby equipment is used in the operation of the above-ground tanks. The tank should be operated at a maximum volume of 19,000 gallons (95% of capacity). The secondary containment under the tanks and return/fill station is cleaned within 24 hours of a spill, or in as timely a manner as possible, to prevent harm to human health and the environment.

2" single-walled steel piping from the wet dumpsters in the return/fill area to the top of the hazardous waste solvent tank is connected by threaded connectors. This piping runs under the dock and leaves the warehouse building on the south side of the return/fill station. At that point the piping system continues south towards the tank farm and is outside secondary containment (this part of the system has welded connectors). Once it reaches tank farm secondary containment the piping runs vertical to the top of the tank. The piping system leaving the tank is constructed of 3" single-walled steel and is inside secondary containment. Figure 9.1-1 details the system.

Leak Detection System

The Safety-Kleen Sanford branch has installed an automatic leak detection system at the above ground storage tank farm for the hazardous waste solvent tank. This system will enable detection of leaks, or releases, to the secondary containment 24-hours a day. The system consists of an Intellipoint sensor, which is placed beside the tank at the base of the

secondary containment structure. The sensor detects the presence or absence of liquids. It will be monitored 24-hours a day, seven days a week, by a 3rd party (Protection One). If the sensor detects liquid it will immediately send a warning notice to Protection One, who will then immediately call the emergency coordinator for the Sanford branch. This system will allow continuous leak detection monitoring when the facility is not occupied.

IGNITABLE OR REACTIVE WASTE REQUIREMENT (40 CFR PART 264.198(b))

The owner or operator of a facility where ignitable or reactive waste is stored or treated in a tank must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981), (incorporated by reference, see Sec. 260.11) (264.198(b)).

TANK SYSTEM SECONDARY CONTAINMENT

Tank Containment

The three tanks in the above ground storage tank farm are underlain by a 56'7" x 38'8" concrete slab, surrounded by a 3' high concrete wall. The wall height in the containment varies with the floor slope and directs flow toward an approximately 35-gallon blind sump. No surface run-on or precipitation will contact with the wastes stored in the tank farm and no run-off collection and management system is deemed necessary. A metal canopy installed over the tank farm minimizes the chance of precipitation accumulating inside the containment area. The layout of the tank farm is shown in Figure 9.2-1. Tank farm containment calculations are shown in Figure 9.2-2. Containment volume was estimated to be 28,092 gallons. This volume represents greater than 100 percent of the capacity of the largest tank within the containment area. The containment areas have been coated with Sikagard® 62 or equivalent. Inspections of the sealant in the containment areas will be conducted as described in Tank System Inspections. If the sealant is found to be worn or deteriorated such that repairs are warranted, the sealant will be repaired in accordance with manufacturers' specifications.

Return/Fill Containment

The return/fill station is a 54' 2" x 78' 9" structure (Figure 9.3-1) located between the office building and warehouse. It contains two wet dumpsters which handle the flow of waste solvent to the hazardous waste storage tank. These dumpsters are not intended for storage but can hold a maximum of 216 gallons (108 gallons per dumpster).

The area is designed such that the route trucks can be backed into the containment area. The roof extends over the truck unloading area so that no precipitation can get into the return/fill station containment area. The containment for the return/fill station is provided by two blind sumps, with a total capacity of approximately 69-gallons. The floor in the return/fill station is sloped to direct flow toward the two sumps. The total containment was estimated to be 5,011-gallons, as shown in Figure 9.2-2.

TANK SYSTEM INSPECTIONS

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management and other material management facilities to ensure proper operation and maintain compliance. The Branch Manager or that person's designee is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule. Figure 9.4-1 is an example Daily Inspection Log for the tank system. This Daily Inspection Log, or equivalent, will be used during daily inspections. Daily inspections of the tank and dumpsters will consist of the following:

- Note volume in tank.
- Observe tank exterior for loose anchoring, wet spots, leaks.
- Check the automatic high level alarm. In addition, measure the depth of used solvent in the tank to confirm the proper functioning of the automatic alarm system and to determine unexpected deviations in tank measuring data, or a sudden drop in liquid level, which may indicate leakage.
- Inspect secondary containment coating, walls, and piping (All piping is above ground).
- Inspect transfer pumps for leaking seals and overheated motors.

- Inspect the solvent dispensing hose, fittings, and valve for any leaks, damage, or wear that could cause a leak to develop.
- Inspect the valves for evidence of leaking. Stem leaks from worn glands and warped valve bodies should be repaired. If the valve cannot be repaired, replace the unit.

Also, the tanks will be visually inspected and tested periodically. The period of time between tank inspections, including shell thickness testing, will not exceed ten years. This time frame for tank inspection is adequate based on Safety-Kleen's experience at its other facilities in Florida. Daily inspection of the solvent return receptacle (wet dumpster) will consist of an inspection for leaks and excess dumpster mud build-up.

TANK SYSTEM CLOSURE AND CONTINGENT POST-CLOSURE PLAN

The tank system closure plan is provided as part of the overall closure plan for the facility in Part 2 K. As discussed below, a contingent post-closure plan for the tanks is not required.

TANK SYSTEM CONTIGENT POST-CLOSURE PLAN

The tank system at the Sanford facility meets the secondary containment requirements of 40 CFR 264.193, and is, therefore, not required to have a contingent post-closure plan under 40 CFR 264.197(c). In addition, Safety-Kleen intends to remove or decontaminate all tank system components, associated containment systems, and contaminated soils (if any) at the time of closure. However, should future conditions indicate that all contaminated soils and tank system components cannot practicably be decontaminated or removed, then a plan to perform post-closure care in accordance with the post-closure care requirements that apply to landfill (40 CFR 264.310) will be prepared for implementation upon FDEP approval.

RESPONSE TO LEAKS AND DISPOSITION OF UNFIT-FOR-USE TANK SYSTEMS

In the event that a leak or spill were to occur from a tank system or secondary containment system, the actions identified herein will be undertaken.

Immediate Response

All waste flow to the tank system in question will be ceased immediately. An inspection will be undertaken to identify the cause of the release. Waste flow to the tank system will not resume until the tank system has been inspected, repaired, and declared fit for use. In order to prevent further releases, or to allow inspection and a repair of the system, it may be necessary to remove the waste from the tank system. This waste removal will occur within 24 hours after detection of the leak, or at the earliest practicable time.

All material released to the secondary containment area will be removed within 24 hours, or in as timely a manner as possible, to prevent harm to human health and the environment. Every reasonable effort will be made to prevent migration of the release to soils or surface water. If necessary, visible contamination of surface water and soil will be removed and properly disposed of.

Notifications

Spills less than, or equal to one pound are exempt from reporting requirements per 40 CFR Part 264.196(d)(2). All other releases require notification as described in the Contingency Plan.

Subsequent Reporting

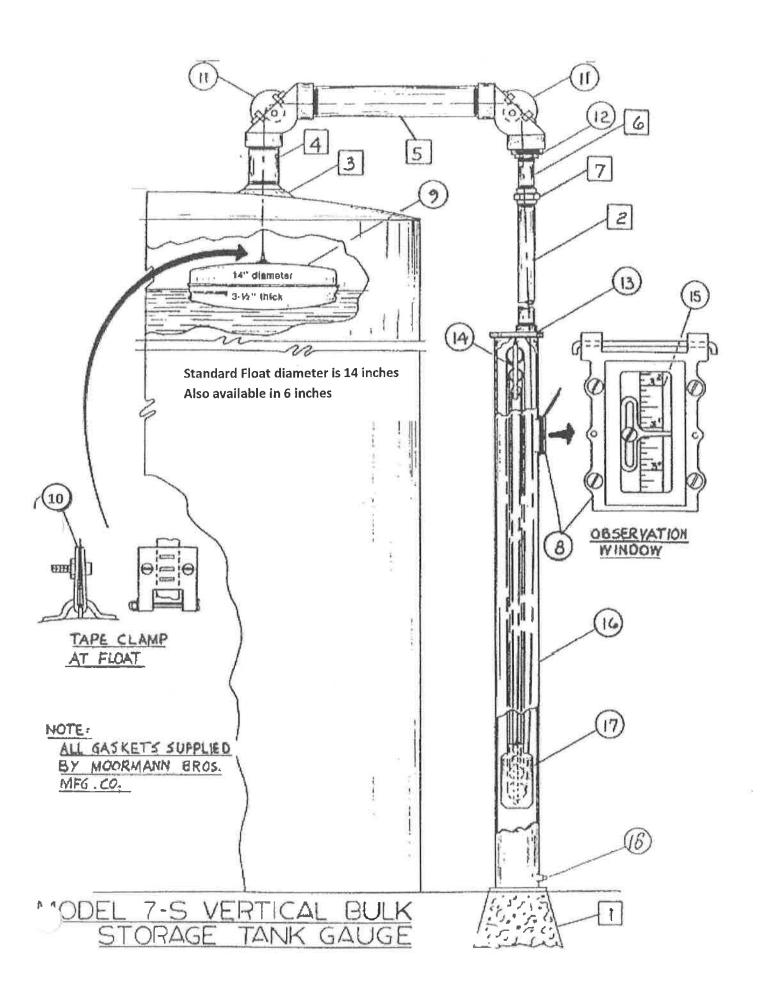
Subsequent reporting will be completed as referenced in the facility Contingency Plan.

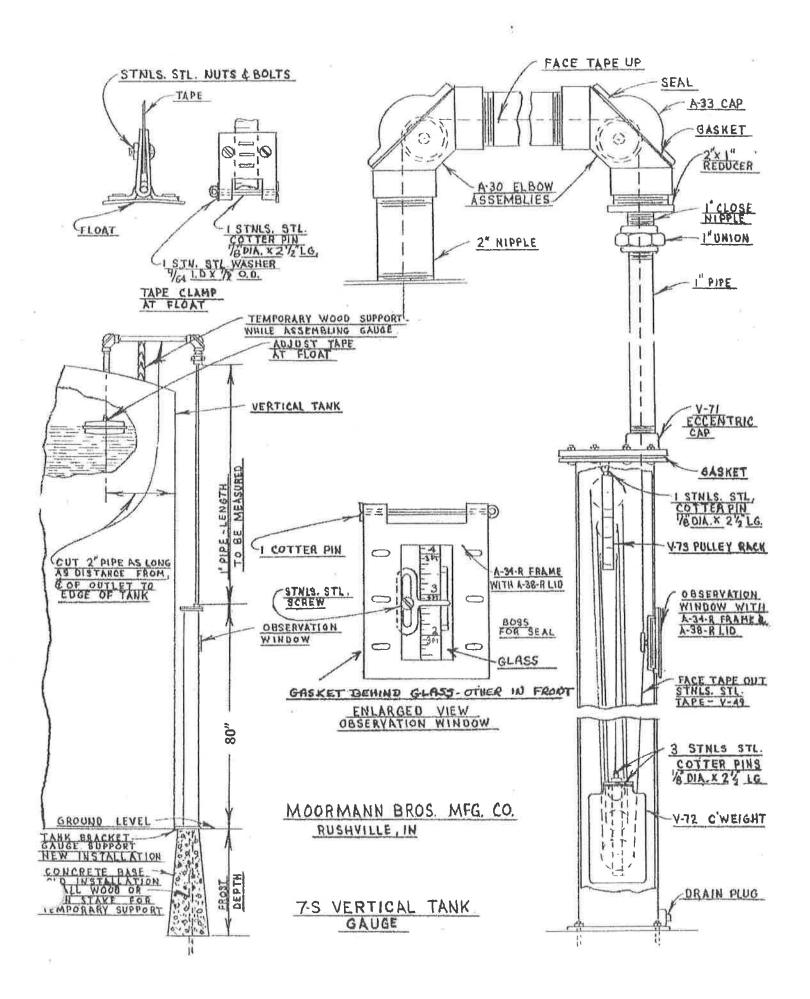
Repair or Closure

If the integrity of the containment system has not been damaged, the system may be returned to service as soon as the released waste is removed and repairs, if necessary, are made. If the tank was the source of the release, the tank must be repaired prior to returning the tank system to service. If the release was from a tank system component which did not have secondary containment, then secondary containment must be provided for this component before the system can be returned to service. The exception to this is if the component can be visually inspected. In this instance, the component may be repaired and returned to service. If a component is replaced, the component must satisfy the requirements for new tank systems and components.

All major repairs must be certified by an independent, registered, professional engineer in accordance with 40 CFR 264.196(f). The engineer must certify that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. This report must be placed in the operating record and maintained until closure of the facility.

If repairs that meet these requirements cannot be performed, the tank system must be closed in accordance with the closure plan.



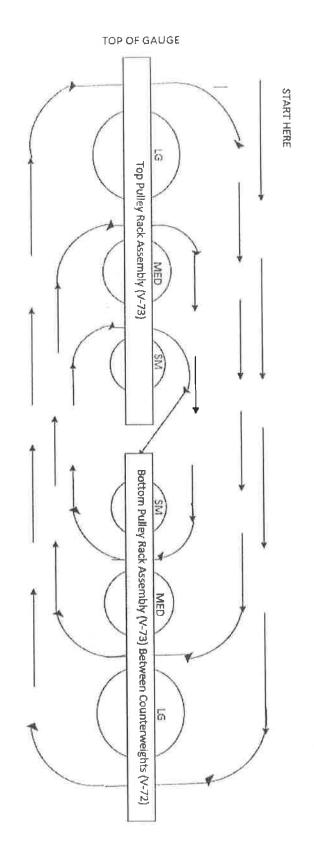


TART TAPE, CLIP END FIRST WITH NUMBERS ON TAPE FACING FRONT OF GAUGE HOUSING, AROUND LARGE BOTTOM PULLEY, UP TO LARGE TOP PULLEY, DOWN TO MEDIUM BOTTOM PULLEY, UP TO SMALL BOTTOM PULLEY, UP TO SMALL TOP PULLEY AND THEN SECURE CLIP END OF TAPE WITH A COTTER PIN TO THE TOP OF THE BOTTOM PULLEY RACK (V-73) ASSEMBLY.

INSTALL THE TAPE WITH THE NUMBERS FACING OUT TOWARDS YOU FROM THE WINDOW OF THE HOUSING.

BE CAREFUL NOT TO THREAD THE APE OVER THE BAR AT THE END OF THE PULLEY RACK. MUST PLACE THE TAPE ON THE PULLEY WHEEL.

ENLARGED DETAIL SHOWING HOW TAPE IS WOUND ON PULLEY RACK ASSEMBLIES OF MOORMANN MODEL #7-S.



F: 765-932-3594

FRONT OF GAUGE

MATERIAL LIST

MODEL 7-S

For All Vertical Tanks Up to & Including 35'

- Material Supplied by Customer (see diagram to match square with number)
 - 1. Gauge Housing Base Support
 - 2. 1" Galvanized Pipe (cut to length)
 - 3. Tank Roof Flange
 - 4. 2" Tank Opening Pipe
 - 5. 2" Galvanized Pipe (cut to length)
 - 6. 1" Galvanized Nipple (any length)
 - 7. 1" Galvanized Union



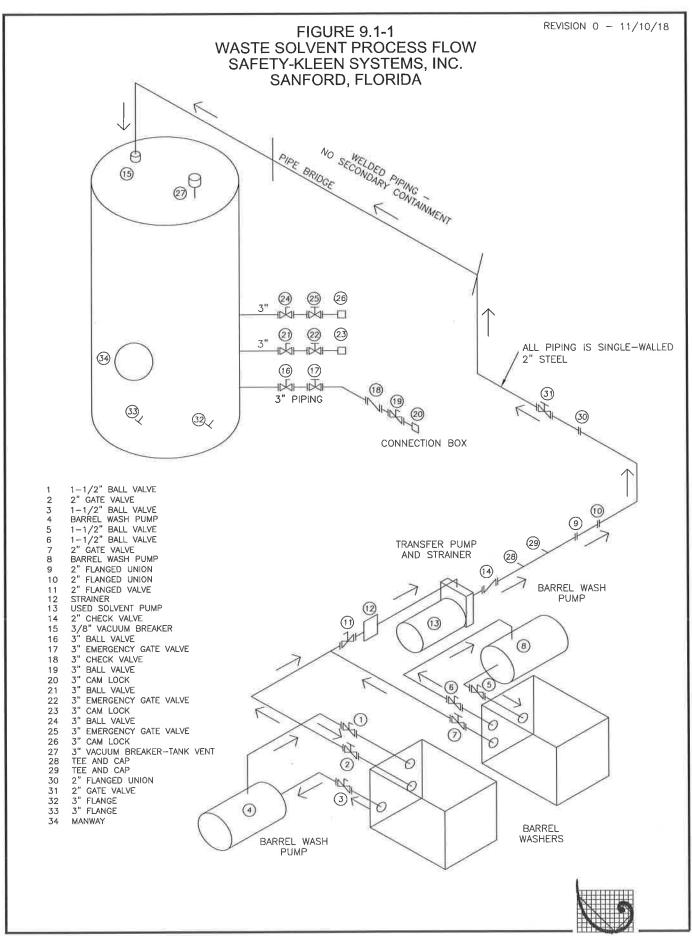
Material Supplied by Moormann Bros.

(see diagram to match circle with number)

		Quantity per
Part Name	Part No.	Unit
Observation Window Assembly (Frame & Lid)	A-34 / A-38	1
Float – Aluminum or Stainless Steel	V-75	1
7-S comes with aluminum float (V-75)		
7-S-SS comes with stainless steel (V-75-S)		
Stainless Steel Tape Clamp & Screws	V-93	1
Elbow Assembly Complete	A-30, A-33	2
2" to 1" Reducing Bushing	B-15	1
Eccentric Cap Complete with Nuts & Bolts	V-71	1
Pulley Rack Assembly	V-73	2
Lufkin Stainless Steel High Visibility Tape	V-49	1
Painted Steel Gauge Housing	V-77	1
Counterweight	V-72	2
Condensation Drain Plug	D-16	1
PE -7 Parts Envelope to include the following:		
(not shown on diagram)		
 Gaskets – Set for Observation Window 	V-81, V-82	1
 Gasket – Elbow Cap 	V-83	2
 Gasket – V-71 Eccentric Cap 	V-84	1
Glass – Window	V-86	1
Stainless Steel Indicator Finger for	V-94	1
Observation Window		
 Cotter Pin – Stainless Steel 	V-96	4
	Observation Window Assembly (Frame & Lid) Float – Aluminum or Stainless Steel 7-S comes with aluminum float (V-75) 7-S-SS comes with stainless steel (V-75-S) Stainless Steel Tape Clamp & Screws Elbow Assembly Complete 2" to 1" Reducing Bushing Eccentric Cap Complete with Nuts & Bolts Pulley Rack Assembly Lufkin Stainless Steel High Visibility Tape Painted Steel Gauge Housing Counterweight Condensation Drain Plug PE-7 Parts Envelope to include the following: (not shown on diagram) Gaskets – Set for Observation Window Gasket – Elbow Cap Gasket – V-71 Eccentric Cap Glass – Window Stainless Steel Indicator Finger for Observation Window	Observation Window Assembly (Frame & Lid) Float – Aluminum or Stainless Steel 7-S comes with aluminum float (V-75) 7-S-SS comes with stainless steel (V-75-S) Stainless Steel Tape Clamp & Screws Elbow Assembly Complete 2" to 1" Reducing Bushing Eccentric Cap Complete with Nuts & Bolts V-71 Pulley Rack Assembly Lufkin Stainless Steel High Visibility Tape Painted Steel Gauge Housing V-77 Counterweight V-72 Condensation Drain Plug PE-7 Parts Envelope to include the following: (not shown on diagram) Gaskets – Set for Observation Window Gasket – V-71 Eccentric Cap Gasket – V-71 Eccentric Cap Glass – Window Stainless Steel Indicator Finger for Observation Window

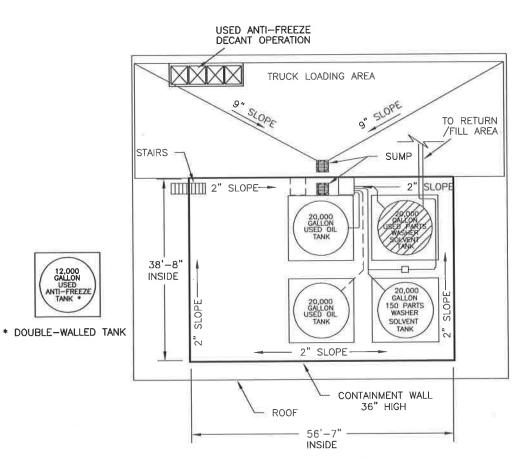
INSTALLATION INSTRUCTIONS – MODEL 7-S

- 1. Locate gauge position on ground mark top edge of tank directly above ground location.
- 2. Measure, cut and thread 2" pipe (as marked on print).
- 3. Use pipe dope on all connections.
- 4. Assemble both A-30 elbows and 2" pipe as shown on print.
- 5. Screw (1) elbow A-30 onto 2" pipe with reducing bushing, close nipple and union as shown on print; other A-30 elbow into 2" nipple in tank then screw other end of 2" pipe into tank elbow, make straight with tank marking.
- 6. Level 2" pipe, use temporary wood brace, if necessary.
- 7. Set gauge housing with eccentric cap assembled on ground directly below overhanging elbow.
- 8. Measure for 1" pipe (reducing bushing in elbow to eccentric cap V-71 on gauge housing) allow for threads, cut and thread 1" pipe.
- 9. Screw 1" pipe into elbow, then remove V-71 eccentric cap from housing and put on 1" pipe. CAUTION Be sure eccentric cap is straight and 1" outlet is farthest away from tank.
- 10. Fasten pulley rack with large pulley up to eccentric cap using stainless steel cotter pin.
- 11. Assemble other pulley rack in counterweights with large pulley down.
- 12. Place counterweight on ground directly beneath eccentric cap pulley rack.
- 13. Remove A-33 caps from both elbows.
- 14. Thread tape from tank elbow with <u>numbers up</u> and clip end first through 2" pipe and over elbow pulleys, down through 1"pipe and out eccentric cap, straight down and around bottom pulley in counterweight and up and over top pulley in eccentric cap, down to medium pulley, up and over medium pulley, down and around small pulley on counterweight and up and around small pulley on eccentric cap, down and fasten to lug on counterweight pulley rack use stainless steel cotter pin. CAUTION —Do not thread tape over or under cross bars in pulley rack. Use caution do not kink or bend tape. SEE DIAGRAM FOR TAPE ROUTING.
- 15. Fasten tape to float with tape clamp (as per print). CAUTION Do not fasten tape clamp too tight as this may damage tape.
- 16. Place eccentric cap gasket on housing top and insert counterweight assembly into housing. CAUTION Do not allow counterweight to drop or jerk as this may cause damage to bearings, also be sure the tape is in groove of pulleys and not on the edge.
- 17. Fasten housing to eccentric cap with observation window directly below 1" pipe.
- 18. Place outside strand of tape over tape guide in observation window, CAUTION Do not bend or kink tape, and put only one strand of tape over tape guide.
- 19. If tank is empty, adjust tape reading at 1-3/8" (float draft), if it is partially full, set reading exactly with stick, make major tape reading adjustments with the float by slipping tape through tape clamp. Minor adjustments (within 1" make the observation finger). DO NOT CUT TAPE UNTIL FINAL CALIBRATION IS ACCURATE.
- 20. In setting the reading on the gauge, ½" ½" or even 1/8" is not close enough, be particular, set gauge to the exact amount of liquid in tank.
- 21. CAUTION Let float down in tank easily. Do not let it drop.
- 22. Assemble observation frame and lid A-34/ A-38 place on housing, tighten for vapor-proofing.
- 23. Replace A-33 elbow caps with gaskets tighten for vapor-proofing.
- 24. Fix base for housing either, concrete, wood post, or steel plate welded to tank, CAUTION Do not weld gauge housing to tank.
- 25. In most climates, condensation forms inside the tank and gauge. A drain plug has been provided for draining at the bottom of housing. In most climates, this is necessary 2 times a year (spring & fall). However, in extreme cases, draining is required more often.



ERM.

FIGURE 9.2-1 TANK STORAGE AREA SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA



LEGEND



NOTE: ENTIRE AREA IS CONCRETE

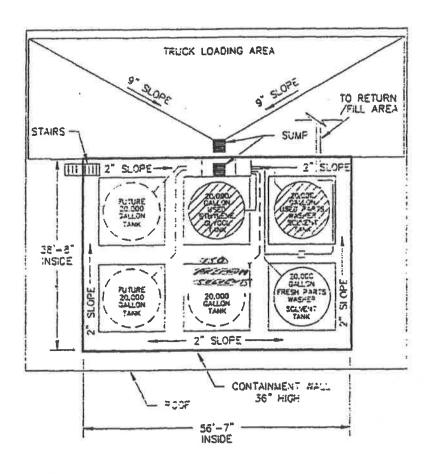


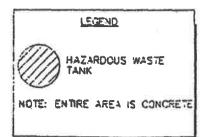


Figure 9.2-2
Tank Farm
Safety-Kleen Corp. Facility
Sanford, Florida



FDEP-CENTRAL DISTRICT HAZARDOUS WASTE







REVISION 1/31/96



Project: Subject:	SKI Sanford HW Permit Au Tank Form Containment Evaluation	Project No.: OTADOS Completed By: RWF6x Checked By:	Sheet: 1 of 3 Date: 1/20/19
ERM Tank C Ve	ontainment Liele Strutuce: 1 × W × H (Dimens 56.58 × 38.67 × 3 6.563.85 ft × 7.48 - 41,097.6 gallons 1 (23) (45) - 4.69 ft × 7.48 9 42 - 35.1 gallons 1 x (30) H by H by 1 x (41) × 3 - 14 × 14 × (41) × 3 - 2,932.2 gallons 1 x (30) × 1 all height 1 x (30) × 3 - 392 ft × 7.48 9 47 - 2,932.2 gallons 1 x (41) × 3 - 392 ft × 7.48 9 47 - 393 ft × 7.48 9 47 -	Checked By: Checked By: Sons from Fig. Sons	Date: //>/S
	= 603.12 ft3 x 7.9897 = 4,511.8 gallons ok Fill Bx (b=b) voll hero = 4 x 3 x (16/2)		stand)

Project: Subject:	SKI Sanford HW Permit Appl. Tonk Form Containment Popl. Evaluation	Project No.: Office Completed By: Checked By:	Sheet: 2 of 3 Date: 19919 Date: 2 of 3
	$f_{\text{FB}} = 16 \text{ft}^3 \times 7.48 \text{gallons}$ $= 119.7 \text{gallons}$		
	Painfall Catchment (assisted NOAA shows 25-yr, 24-) VR = 56.58' x 38.67' x 1	or rainfallevent @	
	= 1,459.22 + 3 > 7.48 = 10,915 gallors	*43	
Availd	Se Caracity = Vc + Vs = 49,097.6 + 35.1 - 2		
	= 30,655 gallons >		Dallsos)
	Capacity is sufficien		

REVISION 0 - 11/10/18

FIGURE 5.6-5 TANK FARM SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA

USED ANTI-FREEZE DECANT OPERATION TRUCK LOADING AREA 9" SLOPE TO RETURN /FILL AREA STAIRS -SUMP 2" SLOPE 2" SLOPE 38'-8" INSIDE 20,000 GALLON 150 PARTS WASHER SOLVENT TANK SLOPE SLOPE * DOUBLE-WALLED TANK 2" SLOPE CONTAINMENT WALL 36" HIGH - ROOF 56'-7" = INSIDE

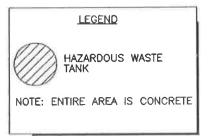
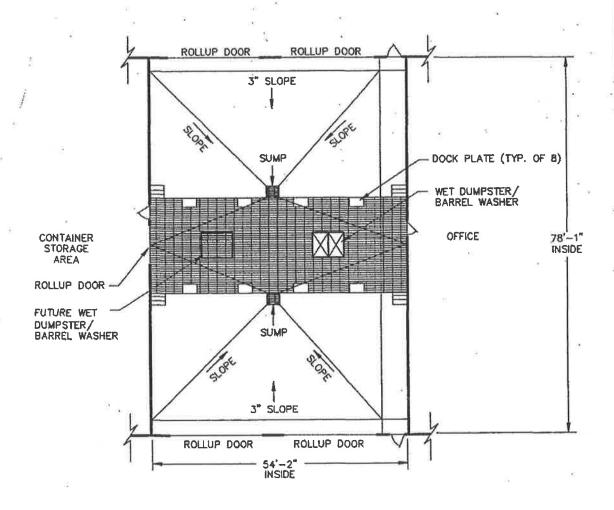
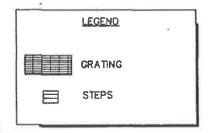






Figure 9.2-2 Return/Fill Shelter Safety-Kleen Corp. Facility Sanford, Florida









ERM-South, Inc.
Environmental Resources Management

Project 5K Sanford W.O. Subject Contaminent Calculations By

W.O. No./3//320.22 Sheet /- of / By VH Date 1/8/93

Chkd by___

Date_

Return / Fill Shelter: volume approximated due to inability to measure slope from a known reterence point

Evoso volume = $L \times W \times H = 54'2'' \times (29'41/2'' + 20' + 29'41/2'') \times 3''$ = $54'2'' \times 78'9'' \times 3''$ = (54.17)(78.75)(.25')= 1066.5 + 73(7.489al) = 7977 gallous

Volume of sloped area: V= \(\frac{1}{2}\)bhd = (0.5)(27'1")(29'4"/2)(1.5" are depth)
= (0.5)(27.08)(29.375)(.125)
= 49.7 ft3 (7.48gal/ft3)= 372 gal
372gal x 8 sloped areas = 2975 gal

Sump volumes: $V = TT r^2 d = (3.14)(.96)^2(1.61) = 4.63 ft3 K 7.48 ft$ = 34.6 gal x Z sumps= 69.2 gallous

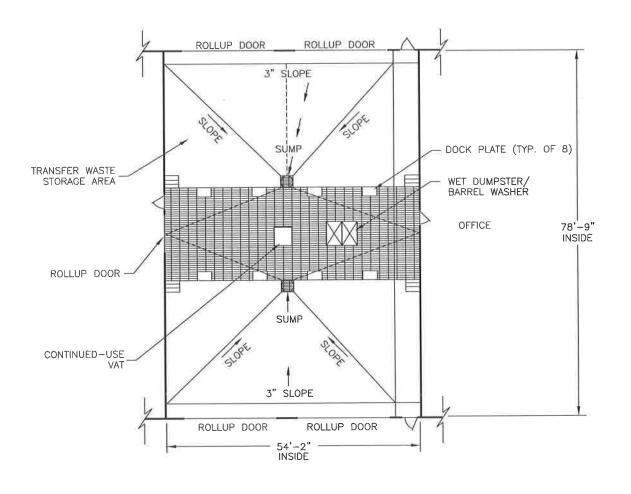
Barrol Washer Volumes: $V = L \times W \times h = 5' \times 3' \times 3''$ = $(5)(3)(.25) = 3.75ft^3$ $3.75ft^3(7.98gal) = 28gal \times 2$ = 56gal

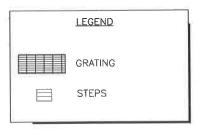
Support Columns: V= 16" x 16" x 3" = (1.33)(1.33)(.25) = ,44 43 (7.48 gal) = 3.3 gal

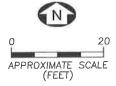
Total Capacity: 7977
- 2975
+ 69.2
- 59.3
- 5011.9 gallons.

Actual measured volume was 3,745 gallows which indicates the floor slope is less than the 3 inches indicated. The slope of the floor is between Zand 3 inches.

FIGURE 9.3-1 RETURN/FILL SHELTER SAFETY-KLEEN SYSTEMS, INC. SANFORD, FLORIDA











CO Tank Systems Inspection

Form Code: 27

Compliance Header Inspector Name Area of Inspection Inspection Date and Time **CO Tank Systems Inspection Instructions** Note condition of inspection items. If item does not apply to an area, mark N/A. All unsatisfactory findings must be explained below. Include any repairs, changes or other remedial actions required or performed. CO Tank Systems Inspection Items Tanks - Check for evidence of failure (e.g., rusty or loose anchoring, distortion, paint failure, other). Pipes/Piping Supports - Check for evidence of failure (e.g., distortion, corrosion, paint failure, other). Valves - Check for evidence of failure (e.g., disconnected, corrosion, sticking, leaks, other). Fittings/Hose Connections - Check for evidence of failure (e.g., loose, disconnected, corrosion, other). Liquid Level - Check for acceptable level. (e.g., high level max, permitted volume, other). Secondary Containment - Check for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, other). Sumps - Check for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, other). Bonding and Grounding - Check for evidence of failure (e.g., loose, broken, corrosion or deterioration, other).

Transfer Equipment/Pump and Pump Motors - Check for availability and condition (e.g., pumps, filters, strainers, hoses, leaks, overheating, other).	
Communication and Alarm System - Check for evidence of failure (e.g., test function, siren, strobe, other).	
Satellite Accumulation Containers - Check for condition and appropriate for area (e.g., filter/basket, solids, label and marking, other).	
Manways, Hatches, Other Openings - Check for evidence of failure (e.g., condition, corrosion, closure, other).	
Pressure Relief Valves (PRV)/ Flame Arrestors - Check for evidence of failure (e.g., condition, corrosion, other).	
Tanks marked with the words "Hazardous Waste" - Check for appropriate markings.	
Tanks not used marked as "Out of Service" - Check for appropriate markings.	
Tanks marked as to the contents - Check for appropriate markings (e.g., Non-Haz Only).	
Monitoring Equipment/Level Indicators - Check for evidence of failure (e.g., pressure and temperature gauges, level indicators, sticking, condensation, disconnected, other).	
Loading/ Unloading Areas - Check condition of area (e.g., available equipment, spill response, containment, pad condition, valve access box, ponding or wet spots, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	



CO Return and Fill Area

Form Code: 36

Compliance Header	
Inspector Name	
Area of Inspection	
Inspection Date and Time	
CO Return and Fill Area Instructions	
Note condition of inspection items. If item does not findings must be explained. Include any repairs c	ot apply to an area, mark N/A. All unsatisfactory hanges or corrective actions.
CO Return and Fill Area Inspection Items	
Pump Seals - Check for evidence of failure (e.g., leaks, other).	
Pump Motors - Check for evidence of failure (e.g., overheating, other).	
Fittings - Check for evidence of failure (e.g., leaks, other).	
Valves - Check for evidence of failure (e.g., leaks, sticking, other).	
Hose Connections and Fittings - Check for evidence of failure (e.g., cracked, loose, leaks, sticking, other).	
Hose Body - Check for evidence of failure (e.g., crushed, cracked, thin spots, leaks, other).	
Clam Shell Unit Type - Lid Fusible Link - Check for evidence of failure (e.g., broken, spring missing, other).	
Clam Shell Unit Type - Lid Hinge Assembly - Check for evidence of failure (e.g., broken pivot arm, damaged lid arm, missing pins, other).	
Sliding Lid Unit Type - Gaskets - Check for	

evidence of failure (e.g., broken, cracked distorted, other).	
Sliding Lid Unit Type - Lid/ Slide Assembly - Check for evidence of failure (e.g., damaged lid, rollers, slide rail, temperature gauge, limit switches, other).	
Roll-up Door Unit Type - Seals - Check for evidence of failure (e.g., broken cracked, distorted, other).	
Roll-up Door Unit Type - Door/ Roll-up Assembly - Check for evidence of failure (e.g., damaged lid, rollers, slide rail, temperature gauge, limit switch, other).	
Wet Dumpster/Drum Washer - Check for evidence of failure (e.g., leaks, rust, split seems, distortion, deterioration, excess debris, sediment accumulation, other).	
Secondary Containment - Check for evidence of failure (e.g., excess sediment, leaks, distortion, deterioration, excess debris, other).	
Loading/Unloading Area - Check for evidence of failure (e.g., cracks, ponding or wet spots, deterioration, other).	
Satellite Accumulation Containers - Check for condition and appropriate for area (e.g., filter/basket, solids, label and marking, other).	
Ventilation Fan - Check for evidence of failure (e.g., inoperative, shutters jammed, other).	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Figure 9.4-1 (page #1) Safety-Kleen Sanford, Florida – Storage Tank System Inspection

Salety-Rieeli Saliford, Florida – Storage Talik System ii		
Inspectors Name/T	itle:	Date:

Inspectors Signature:

Monday	Tuesday	Wednesday	Thursday	Friday
Date:	Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:	Time:

STORAGE TANKS: (Tanks must never be more than 95% full)

Tank	Monday	Tuesday	Wednesday	Thursday	Friday
Waste Solvent					
(in/gal.) x 54 #1					
Clean Solvent					
(in/gal.) #2					
Used oil					
(in/gal.) #3					
Used oil					
(in/gal.) #4					
Used Antifreeze					
(in/gal.)					

Item	Monday	Tuesday	Wednesday	Thursday	Friday
Tank Exterior	A N	A N	AN	AN	A N
If "N" circle appropriate of the circle appr	oriate problem: ru	sty or loose ancho	ring, lack of groundin	g, wet spots, discol	oration, leaks,
High Level Alarms	AN	A N	A N	A N	AN
If "N" circle approp	oriate problem: m	alfunctioning "Pov	ver On" light, malfund	ctioning siren/strob	e light, other:
Volume gauges	A N	AN	AN	AN	A N
If "N" circle approp	oriate problem: di	sconnected, stickir	ng, condensation, oth	er:	

Containment Area (Tank Dike)

Item	Monday	Tuesday	Wednesday	Thursday	Friday
Bottom and	AN	AN	A N	AN	AN
walls					
If "N" circle approp	riate problem: cra	acks, debris in dike	, open drums in dike	, ponding/wet spot	s, stains, sealant
is pitted, cracked o	r chipped, deterio	ration, leaks, other	r:		
Rigid piping and	AN	AN	AN	AN	AN
supporters					
If "N" circle approp	riate problem: di	stortion, corrosion	, paint failure, leaks,	other:	

Observations, comments, date and nature of repairs of any items indicated as "Not Acceptable":					
	_				

Figure 9.4-1 (page #2) Storage Tank System Inspection

Inspectors Name/Title:

			Ins	pectors Si						
Monday	Tuesday		Wednesday			Thursday			Friday	
ATE (MM/DD/YY)										
TIME			-: :					0 j. 		
	Mor	day	Tu	esday	Wed	nesday	Thui	sday	Fric	lay
Transfer pumps & h		-		-						
Pump Seals:	Α	N		A N	Α	N	Α	N	Α	N
If "N" circle a	ppropriate pr	oblem:	leaks,	other						
Motors:	Α	N		A N	Α	N	A	N	A	N
If "N" circle a			overh	eating, oth	er:					
Fittings:		N		A N		N	Α	N	Α	N
If "N" circle a	ppropriate pi	oblem:	leaks,	other:					_	
Valves:		N		A N		N	Α	N	Α	N
If "N" circle a	ppropriate pi	oblem:	leaks,	other:						
Hose Connections & F				A N		N	Α	N	Α	N
If "N" circle a	ppropriate pi	roblem:	leaks,	other:						
Hose Body:		N		A N		N	Α	N	Α	N
If "N" circle a	ppropriate p	roblem:	leaks,	other:						
Return/Fill Station										
Drum Washer:	Α	N		A N	Α	N	Α	N	Α	N
If "N" circle a	ppropriate p	roblem:	leaks,	other:						
Secondary Containme	ent: A	N		A N	Α	N	Α	N	Α	N
If "N" circle a	ippropriate pi	roblem:	leaks,	other:						
	rea: A	N		A N	Α	N	Α	N	Α	N

A = Acceptable N = Not Acceptable

Part II

K. CLOSURE PLAN

Safety-Kleen constructed the Sanford Branch with the intent that it will be a longterm facility for the distribution of Safety-Kleen products. No on site disposal activity occurs at the facility and, hence no disposal capacity will be exhausted that will necessitate closure of the facility. Based on current business and facility conditions, the Sanford facility is expected to remain in operation at least until the year 2035. In the event that some presently unforeseen circumstance(s) would result in the discontinuance of operations and permanent closure or sale of the facility, this closure plan identifies the steps necessary to close the facility at any point during its intended life. This plan should be applied to the tanks system, container storage areas, and equipment used by the facility for hazardous waste management to accomplish the closure performance standard of 40 CFR 264.111. It is intended that all closures will be complete and final with removal of waste and decontamination of the facility and associated equipment. This will eliminate the need for maintenance after closure and the possibility of escape of hazardous waste constituents into the environment. Because closure is not anticipated for some time Safety-Kleen agrees to notify the Department when this decision is made to work with FDEP to update the closure plan using the current requirements and FDEP guidance documents.

FACILITY DATA

- 1. Waste Management Facility Descriptions
 - a. Aboveground Storage Tank: The tank is a 20,000-gallon steel tank. This tank is located within a containment system consisting of a 56'7" x 38'8" foundation slab with 3' perimeter walls.
 - b. Solvent Return/Fill Station: The station is a 54' 2" x 78' 9" concrete portion of the building located between the office and warehouse. It contains two wet dumpsters. The two active dumpsters are used to receive returned solvent from containers and pump it to the used parts washer solvent tank. These dumpsters are not intended for storage, but can hold a max. of 216 gallons (108 gal. each).

- hold a max. of 216 gallons (108 gallons each).
- c. Container Storage Area: The container storage area has a 47'7" x 78' 6" portion of the building. The floors in this area are sloped toward a 2' x 12' containment trench in the middle of the area with a containment capacity of 2,077-gallons. The maximum storage capacity of this area is 20,770-gallons. Wastes allowed for storage are paint related wastes, parts washer solvent dumpster mud, tank bottoms, dry cleaning wastes, spent immersion cleaner, and oil filters.

2. Maximum Inventory of Wastes

- a. Used Parts Washer Solvent: 20,000 gallons
- b. Wet Dumpsters: 216 gallons
- c. Containerized Waste: 6,912 gallons. (Note: This includes any combination of 5, 16, 30, 55, 85-gallon containers, and 350-gallon totes used for various management purposes).

All wastes will be disposed offsite in accordance with appropriate hazardous waste regulations.

CLOSURE PROCEDURES

Container Storage Areas

- At closure, all containers present at the facility will be sent to a Safety-Kleen,
 Clean Harbors TSDF, or third party facility where the contents in the containers will be reclaimed and the containers cleaned for reuse. The containers will be removed and transported with proper packaging, labeling, and manifesting.
- The concrete floor, spill containment area, and walls will be scrubbed with a detergent solution and rinsed with clean water to remove waste residuals from the surface. A final rinsate sample will be collected and analyzed to determine the effectiveness of decontamination. Unless otherwise designated in the formal closure plan, one rinsate sample will be collected from the container storage area. The rinsate sample will be analyzed by EPA method 6010 for the eight RCRA metals and nickel, and for volatile and semi-volatile organics by EPA methods 8015, 8260, and 8270. The area will be decontaminated to meet FDEP's guidance at the time of closure. The pans, grating, and floor beneath the pans in the pans in the paint waste shelter will be cleaned by appropriate means to remove visible contamination. Safety-Kleen intends to recycle the metal components (e.g., pans and grating) in accordance with 40 CFR 261.6(a)(3)(ii) or to reuse them at another Safety-Kleen facility. Accordingly, decontamination of these components is required only to the extent necessary for safe demolition, storage, and transportation of the scrap. Decontamination of the mercurycontaining lamps and devices storage area will be conducted at the time of closure as part of the overall decontamination of the container storage areas.

- Decontamination (i.e., detergent wash and clean rinse) fluids will be collected
 and contained for proper management. One representative sample of the
 contained fluids will be collected to determine whether the water is hazardous.
 This determination will be made by laboratory analysis of the sample for the
 metals and organics (excluding pesticides/herbicides) on the TCLP list. (Note:
 This wash water will be from all areas undergoing decontamination, not just from
 the container storage areas.)
- If the wash water or other wastes generated in the closure process are determined to be hazardous, they will be disposed of properly as a hazardous waste.

 Otherwise, the material will be disposed of as an industrial waste. Assumptions of wash water generation are based on Safety-Kleen's past experience from other facility closures. The generated wash water is expected to be non-hazardous based on Safety-Kleen's experience from other facility closures.
- Equipment to be used to clean this area includes mops, pails, scrub brushes, a wet/dry vacuum, and containers. The mops, pails, and scrub brushes will be containerized and disposed of as hazardous waste. The wet/dry vacuum and containers used will be washed with a detergent solution and rinsed to decontaminate them.

Solvent Return/Fill Station

- At closure, any sludge in the wet dumpsters ("dumpster mud") will be cleaned out and containerized, labeled, and manifested for proper disposal.
- The metal superstructure components of the station (i.e., the wet dumpsters and the dock grating) will be cleaned by appropriate means to remove visible contamination. Safety-Kleen intends to recycle these components as scrap metal in accordance with 40 CFR 261.6(a)(3)(ii), or to reuse them at another Safety-Kleen facility. Accordingly, decontamination of the components is required only to the extent necessary for safe demolition, storage, and transportation of the scrap.

• The concrete floor in the return/fill station will be scrubbed with a detergent solution and rinsed with clean water to remove waste residuals from the surface. A final rinsate sample will be collected and analyzed to determine the effectiveness of decontamination. Unless otherwise designated in the formal closure plan, the rinsate sample will be analyzed for the same constituents as the container storage area rinsate sample. The area will decontaminated to meet FDEP's guidance at the time of closure.

Aboveground Storage Tank System

Note: The product solvent & used oil tanks will be closed in accordance with Chapter 62-762, F.A.C.

Metal Components of the Tank Storage System

- At closure, the contents of the tank will be removed to a tanker truck using existing unloading equipment and subsequently transported to a Safety-Kleen recycle center, or 3rd party facility.
- Once the contents have been drained, the tank will be opened by removing the
 manways and vented by supplying fresh air to the interior space of the tank. Any
 residual wastes will be removed via vacuum for recycling with the previously
 drained wastes.
- The interior of the tank as well as all associated piping and appurtenant equipment will then be cleaned by appropriate means to remove visible contamination. Safety-Kleen intends to recycle the tank, piping, and appurtenant equipment as scrap metal in accordance with 40 CFR 261.6(a)(3)(ii), or to reuse them at another Safety-Kleen facility. Accordingly, decontamination of the metal components is required only to the extent necessary for the safe demolition, storage, and transportation of the scrap.

Concrete Containment System

 Final disposition of the concrete containment system where the waste tank is located will depend in part upon the presence or absence of underlying soil contamination. To make that determination, the upper six inches of soil immediately below the concrete slab will be sampled at the following locations, as follows:

- 1. Under the waste tank, and at the containment system sumps;
- 2. Beneath the most prominent of any cracks observed in the slab, and under the tanker connections.
- Sampling locations, and the number of samples required will ultimately be determined after consultation with the Department
- These sample locations may be adjusted as actual field conditions warrant, but a minimum of two samples will be retrieved. These samples will be analyzed for petroleum constituents, and by EPA Method 6010 for the eight RCRA metals and nickel, and for volatile and semi-volatile organics by EPA Methods 8015, 8260, and 8270. Analysis for Mercury will be obtained by the appropriate 7000-series analytical method.
- The perimeter walls and foundation slab of the secondary containment area will be scrubbed with a detergent solution and rinsed with clean water to remove waste residuals from the surface. A final rinsate sample will be collected and analyzed to determine the effectiveness of decontamination. Unless otherwise designated in the formal closure plan, the rinsate sample will be analyzed for the same constituents as the container storage area rinsate sample. The area will be decontaminated to meet FDEP's guidance at the time of closure. Safety-Kleen anticipates that proper maintenance of the concrete containment system will allow the slab to remain in place at closure.
- Safety-Kleen will proceed with demolition of the perimeter walls. If it is determined that soil contamination exists beneath the foundation slab, Safety-Kleen will demolish the entire concrete structure and complete a further delineation of the extent of soil contamination to be removed to complete closure. Any site assessment, interim measures, or corrective action that may be required will be conducted in accordance with Chapter 62-780, F.A.C. and permit requirements.

- Prior to demolition of the perimeter walls, one representative composite sample of the construction materials will be collected and submitted for analyses (by TCLP) of metals and organics (excluding pesticides and herbicides) unless an alternate analytical protocol is required by the selected disposal facility. The representative composite sample will include biased grab samples collected from areas of staining. If no stained areas are evident, the grab sample locations will be randomly selected. If the construction materials are classified as non-hazardous using TCLP, then they will be disposed of as construction debris in an appropriately permitted disposal facility. In the event the construction materials are identified as hazardous using TCLP, the construction materials will be disposed of as a hazardous waste in accordance with RCRA regulations.
- If the foundation slab must be removed, it will be demolished and the construction materials tested using TCLP in the same manner as that described above for the walls of the secondary containment system.
- with clean, compacted general fill material graded to match existing surfaces and to preclude ponding of water. To ensure backfill is clean (i.e., is not contaminated with constituents at concentrations above Florida soil cleanup goals or site background (whichever is higher)), one representative composite sample of the backfill sample will be analyzed by EPA Method 6010 for the eight RCRA metals and nickel, and by EPA Methods 8015, 8260, and 8270.

FACILITY CLOSURE SCHEDULE AND CERTIFICATION

- Safety-Kleen may amend the closure plan at any time during the active life of the
 facility. The active life of the facility is that period from initial receipt of
 hazardous waste to certification of final closure. Safety-Kleen will amend the
 plan any time changes in operating plans or facility design affect the closure plan
 or whenever a change occurs in the expected year of closure of the facility. The
 plan will be amended within 60 days of the changes.
- Safety-Kleen will notify the FDEP of its intent to close the facility in accordance with Chapter 62-730.240, F.A.C.
- Safety-Kleen will remove from the site all hazardous wastes in accordance with the approved closure plan. The Regional Administrator may approve a longer period if Safety-Kleen demonstrates that:
 - 1. The activities required to comply with this paragraph will, of necessity, take longer than 90 days to complete; or
 - 2. The following requirements are met:
 - a) The facility has the capacity to receive additional wastes;
 - b) There is a reasonable likelihood that a person other than Safety-Kleen will recommence operation of the site;
 - c) Closure of the facility would be incompatible with continued operation of the site; and
 - d) Safety-Kleen has taken and will continue to take all steps to prevent threats to human health and the environment.
- Safety-Kleen will complete closure activities in accordance with the approved closure plan within 180 days after receiving the final volume of wastes or 180 days after approval of the closure plan, whichever is later. When closure is completed, all facility equipment and structures shall have been properly disposed of, or decontaminated by removing all hazardous waste and residues.
- Within 60 days of closure completion, Safety-Kleen will submit certification by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

Figure 10.3-1 presents a typical closure schedule anticipated for the Sanford facility.

CONTINGENT POST-CLOSURE PLAN

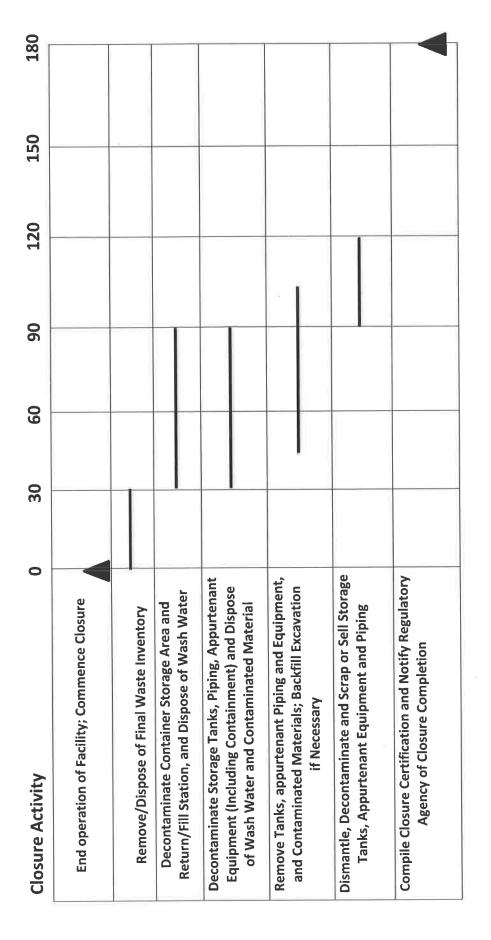
The tank system at the Sanford facility meets the secondary containment requirements of 40 CFR 264.193, and is, therefore, not required to have a contingent post-closure plan under 40 CFR 264.197(c). In addition, Safety-Kleen intends to remove or decontaminate all tank system components, associated containment systems, and contaminated soils (if any) at the time of closure. However, should future conditions indicate that all contaminated soils and tank system components cannot practicably be decontaminated or removed, then a plan to perform post-closure care in accordance with the post-closure care requirements that apply to landfills (40 CFR 264.310) will be prepared for implementation upon FDEP approval.

CLOSURE COST ESTIMATE

The cost for closure of the facility is estimated in the CCE worksheets and summarized as follows:

	Inventory Removal	\$44,481
0	Storage Tank Decontamination	\$17,831
9	Decontaminate The Return/Fill Station	\$19,491
8	Decontaminate Container Storage Area	\$12,302
B	Containerize, Stage, Transport & Dispose of Decon Wastes	\$24,557
0	Closure Certification	\$12,354
	Subtotal	\$131,016
	15% Contingency	\$19,652
	2018 Total Closure Cost Estimate	\$150,668

Figure 10.3-1
Typical Closure Schedule
Safety-Kleen Sanford



Revision	on N	umber	0			
Date		11/10/18				
Page	1	of	2			

Ρ.	Information Requirements Regarding Potential Releases From Solid Waste
	Management Units

Safety-Kleen Systems, Inc.

Name					
PID No	FLD 9	84 171 165			
	Sanford		Florida		
ocation	city		state		
facility? A so wastes have the managem where solid w	olid waste management unit (SV been placed at any time, irrespe ent of solid or hazardous waste astes have been routinely and s	VMU) is a disc active of whether . Such units in ystematically re	ernable unit at which solid er the unit was intended for nclude all areas at a facility		
DO NOT INCLUI	DE HAZARDOUS WASTE UNITS CURR	ENTLY SHOWN IN	YOUR PART B APPLICATION.		
	landfill	☐ Yes	⊠ No		
	surface impoundment	☐ Yes	⊠ No		
	land farm	☐ Yes	⊠ No		
	waste pile	Yes	⊠ No		
	incinerator	Yes	⊠ No		
	storage tank	Yes	☐ No		
	container storage area		☐ No		
	injection wells	Yes	⊠ No		
	wastewater treatment units	Yes	⊠ No		
	transfer station	X Yes	☐ No		
	waste recycling operations	X Yes	☐ No		
	land treatment facility	☐ Yes	⊠ No		
	boiler/industrial furnace	☐ Yes	⊠ No		
	other (units not listed above)		☐ No		
	P I.D. No ocation Are there any facility? A so wastes have the managem where solid w July 27, 1990	Sanford city Are there any of the following solid waste man facility? A solid waste management unit (SV wastes have been placed at any time, irrespethe management of solid or hazardous waste where solid wastes have been routinely and structure solid waste place in the solid so	Sanford City Are there any of the following solid waste management units facility? A solid waste management unit (SWMU) is a disc wastes have been placed at any time, irrespective of whether the management of solid or hazardous waste. Such units in where solid wastes have been routinely and systematically resolved by the management of solid or hazardous waste. Such units in where solid wastes have been routinely and systematically resolved by the management of solid or hazardous waste. Such units in where solid wastes have been routinely and systematically resolved by the management of solid or hazardous waste. Such units in where solid wastes have been routinely and systematically resolved by the management units and single facility and systematically in the management units and solid waste in place in the management units and selection waste place in the management units and solid waste in the management units in the		

2. If there is a "yes" answer to any of the items in 1. above, on separate sheet(s) of paper, provide a description of the wastes that were stored, treated or disposed of in each unit. In particular, focus on whether or not the wastes would be considered hazardous wastes or hazardous constituents under RCRA. (Hazardous wastes are those identified in 40 CFR Part 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR Part 261.) Include any available data on quantities or volumes of wastes disposed of and the dates of disposal. Provide a description of each unit and include capacity, dimensions, and location at the facility. Provide a site plan, if available, and the dates of operation of the unit [40 CFR 270.14(d)(1)].

Revision	on N	umber	0
Date)/18		
Page	2	of	2

3. On separate sheet(s) of paper, describe all data available on all prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or may still be occurring, for each unit noted in 1. above and also for each hazardous waste unit in your Part B application [40 CFR 270.14(d)(1)].

Provide the following information for each SWMU:

- a. Date of release.
- b. Specifications of all wastes managed at the unit, to the extent available.
- c. Quantity or volume of waste released.
- d. Describe the nature of the release (i.e., spill, overflow, ruptured pipe or tank, etc.)
- e. Location of the unit on the topographic map provided under 40 CFR 270.14(b)(19).
- f. Designate the type of unit.
- g. General dimensions and structural description (supply any available drawings).
- h. Dates of operation.
- 4. On separate sheet(s) of paper, provide for each unit all analytical data that may be available which would describe the nature and extent of the environmental contamination that exists as a result of the prior releases described in 3. above. Focus on the concentrations of hazardous wastes or constituents present in contaminated soil or groundwater [40 CFR 270.14(d)(3)].

Part II

P. #2 INFORMATION REQUIREMENTS REGARDING SOLID WASTE MANAGEMENT UNITS

SWMU-1(Container Storage Area Inside Service Center) is described within the permit application in section Part II B.

SWMU-2 (Tank Storage Area Inside Tank Farm) is described within the permit application in section Part II C.

SWMU-3 (Return and Fill Area) is described in Part II C.

SWMU-4 (Satellite Container Area (Inside SWMU-3)) is one 55-gallon container next to the wet dumpsters in the return/fill area.

SWMU-5 (Oily Water Tanker Trailer) is a 6,000 gallon tanker sitting in the back loading/unloading dock. This tanker is used for storage of material serviced by Safety-Kleen's Vacuum program.

SWMU-6 (Spent Mineral Spirits Tank (Inside SWMU-2)) is located within the tank farm and is described in Part II C.

SWMU-7 (Used Oil Tanks (Inside SWMU-2)) consists of two 20,000 gallon tanks for storage of used oil.

SWMU-8 (Used Antifreeze Tank) is a 12,000 gallon double-walled vertical above-ground storage tank immediately west of the tank farm.

SWMU-9 (Transfer Waste Storage Area) consists of the northwestern portion (Bay 1) of the return and fill area, and the southern portion of the container storage area.

SWMU-10 (Solid Waste Dumpster) is a municipal dumpster for solid wastes that is located immediately west of the used antifreeze tank.

SWMU-11 (Loading/Unloading Areas) are located as follows:

- 11a Warehouse Dock northwest corner of warehouse building
- 11b Return/Fill Dock northern portion of return and fill area
- 11c Tank Farm Area immediately north of tank farm

SWMU-12 (Mercury Lamps/Devices/Battery Storage Area (Inside SWMU-1)) is located along the northern wall of the container storage area in the warehouse building.

Revision 0 – 11/10/18

Part II P.3 Prior/Current Releases

Date	Material	Amt. (gallons)	Explanation
2/24/99	105 Solvent	30	Leaky drum on route truck in the north parking lot.
6/8/99	Perc	3	Drum tipped over in return/fill bay and spilled material into secondary containment
9/21/99	Compound Cleaning Liquid	5	Drum leaking in container storage area
2/8/01	Non-hazardous Waste Water	25	Drum leaking within containment area
8/10/01	Used Oil	20	3 rd party transporter blew a gasket seal while pumping oil in the tanker loading/unloading area.
7/16/09	Oily Water	30	Hose not secured properly and came loose during off- loading into oily water tanker trailer at back dock
8/13/09	Aqueous Cleaning Solution	15	While transferring material into a bin approximately 15 gallons spilled onto the return/fill bay floor
9/22/09	Antifreeze	15	Product antifreeze container punctured by forklift in the warehouse building spilling material into the containment trench.
12/28/09	Used Oil	1	Coupler came loose while off-loading and sprayed about 1 gallon of used oil onto the tank farm pad
2/21/11	Oily Water	5	Hose connection came loose while off-loading into the tanker trailer back dock containment area
3/13/12	Diesel Fuel	0.5	Fuel line under oil truck failed while off-loading on the tank farm pad
11/15/12	Used Oil	30	Connection failed at the valve due to the hose coupler not being secured and spilled 30 gallons of used oil onto the tank farm pad
4/16/13	Used Oil	10	Hose split while off-loading into used oil tank spilling 10 gallons of used oil onto tank farm pad.

Part II

Q. INFORMATION REQUIREMENTS FOR SOLID WASTE MANAGEMENT UNITS

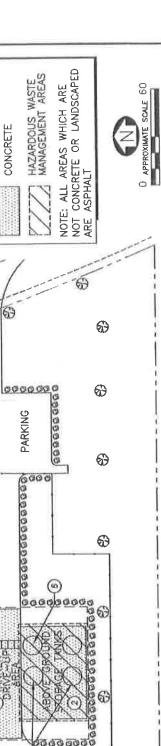
Part II.Q. of the Florida Department of Environmental Protection's (FDEP's) Application for a Hazardous Waste Permit outlines the information requirements for solid waste management units (SWMU's) at the facility. This section provides the required information.

A RCRA Facility Assessment Report, dated June 24, 1991, was completed by the Florida Department of Environmental Protection for the Safety-Kleen Sanford facility. In this report two SWMU's were identified. These SWMU's are listed in the current operating permit (22198-HO-007) along with ten additional SWMU's that were identified during the last permit renewal application in 2013. The complete list of SWMU's is found on the next page.

Revision 0 - 11/10/18

SWMU NUMBER	TUMBER DESCRIPTION		
1	Container Storage Area Inside Service Center		
2	Tank Storage Area Inside Tank Farm		
3	Return and Fill Area		
4	Satellite Container Area (Inside SWMU-3)		
5	Oily Water Tanker Trailer		
6	Spent Mineral Spirits Tank		
7	Used Oil Tanks		
8	Used Antifreeze Tank		
9	Transfer Waste Storage Area		
10	Solid Waste Dumpster		
11	Loading/Unloading Areas		
11a	Warehouse Dock		
11b	Return/Fill Dock		
11c	Tank Farm Area		
12	Mercury Lamps/Devices Storage Area (Inside		
	SWMU-1)		

CONTAINER STORAGE AREA INSIDE SERVICE CENTER TANK STORAGE AREA INSIDE TANK FARM BUILDING PROPERTY BOUNDARY SATELLITE CONTAINER AREA (INSIDE SWAIU-3) OILY WATER TANKER TRAILER MERCURY LAMPS/DEVICES & BATTERY STORAGE AREA (INSIDE SWAU-1) USED OIL TANKS USED ANTIFREEZE TANK TRANSFER WASTE STORAGE AREA SOLID WASTE DUMPSTER 1 LOADING/JNILOADING AREAS 11A — WAREHOUSE DOCK 11B — RETURN/FILL DOCK CONCRETE SPENT MINERAL SPIRITS TANK LEGEND FENCE 11C - TANK FARM AREA RETURN AND FILL AREA SWMU'S LOCATIONS OF SOLID WASTE MANAGEMENT UNITS (SWMU) CENTRAL PARK DRIVE 63 000000000000 SAFETY-KLEEN SYSTEMS, INC. PARKING SLIDING GATE SANFORD, FLORIDA 63 FIGURE PART II-Q PARKING PARKIN OFFICE PIPE BRIDGE ROOF 63 SLIDING GATE (3) E (m) PARKING



FEET

3

6

PARKING (10)

00000000

Part II

S. AIR EMISSION STANDARDS

AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

The requirements of 40 CFR 264 Subpart BB – Air Emission Standards for Equipment Leaks apply to certain equipment associated with the used parts washer solvent storage tanks system. Figure 2.2-6 plots the facility layout with the locations of the hazardous waste management units. Equipment subject to Subpart BB requirements is included in the "above ground storage tanks" shown in Figure 2.2-6. This equipment contains or contacts hazardous wastes with VOC concentrations > 10% by weight. The Subpart BB requirements apply to pumps, valves, flanges, etc., which are part of the used parts washer solvent storage tank system. Figure 11.1-1 shows the specific equipment items, which are considered to be in "heavy liquid service" for the purposes of Subpart BB. Compliance with the applicable sections of 40 CFR 264.1052 thru 1063 has been achieved by the implementation of the procedures outlined in Appendix D and other procedures detailed below.

Implementation Schedule

All facilities subject to these regulations were required to be in compliance by the date specified in the final rule.

Schedule and Procedures For Inspections

Pursuant to Subpart BB of 40 CFR Part 264 and 40 CFR 270.25, Safety-Kleen inspects all regulated units for leaks each business day. Inspections are completed electronically (CO Tank Sys BB Equipment Inspection), and a list of equipment inspected is found on Figure 11.1-2. If an issue arises with the electronic system, they will be completed on paper using this form. All valves, pumps, and flanges are visually inspected. The inspection items have been properly tagged in accordance with 40 CFR 264.1050(d) and are inventoried on the environmental piping schematic diagrams included in Figure 11.1-1. In the event that a leak is detected, repairs will be implemented in accordance with the applicable provisions of Subpart BB (first attempt at repair within 5 days; repair completed or equipment placed "out of service" within 15 days. For such repairs, a "Leak Detection and Repair Record" will be completed (see Figure 11.1-3 for an example.

Due to the inherent properties of the waste parts washer solvent stored in the tank, the use of a screening device such as a photoionization detector (PID) is impractical. The liquids are heavy and have low vapor pressures, therefore a release would be visible in a liquid phase rather than a vapor. The parts washer solvent has a maximum of 2,000 ppm concentration in the vapor phase.

Alternate Control Devices

No alternate control devices are in use at this facility.

Documentation Of Compliance

Pumps in Light Liquid Service (40 CFR 264.1052)

Safety-Kleen manages parts washer solvent (mineral spirits) that has vapor pressure less than 0.3 kilopascals at 20 degrees C. Therefore pursuant to 40 CFR 264.1030, these materials are classified as heavy liquids. The existing pumps that manage hazardous wastes at the Sanford facility are identified and listed for use in heavy liquid service. Therefore, the Sanford facility does not have any pumps that are in light liquid service subject to the requirements of 40 CFR 264.1052.

Compressors (40 CFR 264.1053)

The facility does not have any compressors that are in contact with organic chemicals. Therefore, 40 CFR 264.1053 is not applicable.

Pressure Relief in Gas/Vapor Service (40 CFR 264.1054)

The facility does not have any pressure relief subject to the requirements of 40 CFR 264.1054.

Sampling Connecting Systems (40 CFR 264.1055)

The facility does not have any sampling connecting systems or in situ sampling systems.

Open-Ended Valves or Lines (40 CFR 264.1056)

Safety-Kleen has identified the location of each open-ended valve and line and included it in the inspection record. The open-ended valves and lines that are subject to the requirements of 40 CFR 264.1056 are identified in the facility's environmental piping schematic drawing (Figure 11.1-1). This equipment is either equipped with caps, second valves, or double block and bleed system. A cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring hazardous waste stream flow through the open-ended valve or line. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the hazardous waste stream end is closed before the second valve is closed. When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves.

Valves in Gas/Vapor Service or in Light Liquid Service (264.1057)

All existing valves that come in contact with hazardous wastes are in heavy liquid service. Therefore, they are not subject to the requirements of 40 CFR 264.1057. If their use is changed to light liquid service, the valves will be monitored for leaks using a portable organic vapor analyzer in accordance with Method 21.

Pumps and Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges and Other Connectors (40 CFR 264.1058)

At the present time, the pumps, valves, flanges, and other connectors at the Sanford facility are used for heavy liquid service. As defined in 40 CFR 264.1031, the mineral spirits solvents managed at the facility are considered to be heavy liquid because the solvents have a vapor pressure less than 0.3 kilopascals at 20° C. Furthermore, no single contaminant is present in the wastes that has vapor pressure greater than 0.3 kilopascals in concentrations in excess of 20% by weight. In addition, the wastes presently managed in the equipment at the Sanford facility have a maximum of 2,000 ppm concentration in the vapor phase. Therefore, a portable organic vapor analyzer will not detect leaks at 10,000 ppm and a leak will be observed based on a visible liquid leak rather than by a portable organic analyzer. The first attempt at repair will be made no later than five calendar days after each leak is detected. Pursuant to the requirements of 40 CFR 264.1058, if a visual leak is observed, the affected equipment will be repaired no later than 15 days after it is detected. Whenever a leak is detected as specified in 40 CFR 264.1064 the following will apply:

- A weatherproof and readily visible identification attached to the leaking equipment shall be marked with the following information: equipment identification number, date that evidence of a potential leak was found in accordance with 264.1058(a), and date leak was detected.
- The identification on equipment, except on a valve, may be removed after it has been repaired.
- The identification on a valve may be removed after it has been monitored for two successive months as specified in 264.1057(c) and no leak has been detected during those two months.

Whenever a leak is detected as specified in 40 CFR 264.1058, the following information shall be recorded, as deemed appropriate, in an inspection log and shall be kept as part of the facility operating record:

- The instrument, operator, and equipment ID numbers.
- The date that evidence of a potential leak was found in accordance with 264.1058(a).
- The date the leak was detected and the dates of each attempt to repair the leak.
- Repair methods applied in each attempt to repair the leak.
- "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
- Documentation supporting the delay of repair of a valve in compliance with 264.1059(c).
- The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a hazardous waste management unit shutdown.
- The expected date of successful repair of the leak, if the leak is not repaired within 15 calendar days.
- The date of successful repair of the leak.

Recordkeeping Requirements

Pursuant to the requirements of 40 CFR 264.1064, Safety-Kleen has identified all affected equipment by number and location (Equipment Schedule) as shown in Figure 11.1-1.

The following records will be maintained at the Sanford Branch and maintained as part of the facility's operating record.

- Type of equipment; valve, pump, flange, etc.
- Service; light liquid or heavy liquid.
- Percent-by-weight is not necessary for the equipment because the facility manages wastes that are nearly 100% organic by weight.
- Method of compliance; daily inspections.
- ID on the equipment, if they are found leaking, will be implemented.
- Leak monitoring results and any repairs conducted at the facility.

Closed-Vent Systems and Control Devices (40 CFR 264.1060)

Since neither a closed vent system nor a control device is required for, or as part of, the equipment ancillary to the facility's hazardous waste storage tank (equipment subject to Subpart BB), demonstrations of compliance with applicable design, operation and maintenance specifications are not required. The Sanford facility will maintain records as part of the facility's operating record that indicate the name and ID of each equipment (i.e., pumps, valves, flanges, open-ended valves, etc.) at the facility. The record will include the type of chemicals managed in each equipment (i.e., light liquid, heavy liquid, etc.) and the state of the chemicals (i.e., gas, vapor, liquid, etc.) and any leaks detected (i.e., visual, >10,000 ppm, etc.) and the date and type of repair performed to repair the leaking equipment. Since Safety-Kleen manages organic chemicals that are nearly 100% by weight organic, it is not required to maintain in the records the concentration of organic chemicals in the waste stream (40 CFR 264.1064(b)(1)(iv)).

AIR EMISSION STANDARDS FOR TANKS, AND CONTAINERS

Safety-Kleen's Sanford facility manages wastes that range in Volatile Organic concentrations up to 100%. Therefore, all wastes managed in containers and in storage tanks are handled as being subject to 40 CFR 264 Subpart CC requirements based on the knowledge of the wastes managed at the facility. Therefore, no analytical waste determination is required.

Supart CC Tank Standards (40 CFR 265.1084)

The Safety-Kleen Sanford facility manages hazardous wastes in a tank system that consists of one 20,000-gallon storage tank. The tank in this system is subject to Subpart CC requirements as a Level 1 Tank based on tank dimensions and maximum vapor pressure of volatile organic materials managed in this tank (see following table). A list of tank, tank dimensions and maximum vapor pressure of volatile organics managed in tanks subject to Level 1 Tank controls is provided in the following table.

Applicability of Standards Level 1 Tanks

Tank Capacity	Maximum Vapor Pressure
> 151 cubic meters (39800 gallons)	< 5.2 kPa (0.76 psia)
> 19800 gallons < 39800 gallons	27.6 kPa (4.05 psia)
< 19800 gallons	76.6 kPa (11.26 psia)

Tanks that meet the above size and vapor pressure limits and that are not heated to a temperature that would increase the vapor pressure of the materials above these limits are required to meet Level 1 Tank Standards. See Table 11.2-1 for a summary of the tank at the Sanford facility subject to the requirements of Subpart CC, and the applicable controls.

Level 1 Tank Requirements (40 CFR 264.1084(c))

Safety-Kleen spent parts washer solvent has a vapor pressure of less than 0.3 kilopascals at 20° C. The tank used for storing this waste has a capacity of 20,000 gallons. A complete description of the tank system is found in Part II C. Waste material stored in these tanks is spent Safety-Kleen Premium Gold 150 Solvent. The storage tanks meeting Level 1 requirements are equipped with fixed roofs with the following specifications:

- The fixed roof and its closure devices form a continuous barrier over the entire surface area of the hazardous waste in the tank.
- There are no visible cracks, holes, gaps, or other open spaces between roof section and the tank wall.
- Each opening in the fixed roof is equipped with a closure device designed to operate such that when the closure device is secured in closed position, there are no visible cracks, holes, gap, or other open spaces in the closure device or between the perimeter of the opening and the closure device or connected to a control device (control is not required for Level 1 Tanks).

Inspection Requirements for Level 1 Tanks are as follows:

The fixed roof and its closure devices are visually inspected to check for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes or gaps in the roof sections; broken, cracked, or damaged seals or gaskets on closure devices; broken or missing hatches, access covers, caps, or other closure devices. A description of inspections and example log for tanks can be found in Part II C.

Level 2 Tanks (40 CFR 265..1084(d))

There are no level 2 tanks at this facility.

Subpart CC Container Standards (40 CFR 264.1086)

This section is applicable to containers that are greater than 26 gallons that are used to manage hazardous wastes with greater than 500 ppm volatile organic contents.

Hazardous waste containers that are filled (generated) at the facility as well as hazardous waste containers that are received from off site are subject to this rule. Table 11.2-2 provides a summary of the areas, and types of containers managed, at the Sanford facility for which Subpart CC is applicable.

Level 1 Containers (40 CFR 265.1086(c))

Containers greater than 26 gallons but less than 119 gallons and containers greater than 119 gallons used in heavy material service (<0.038 psia) are to be-controlled in accordance with one of the following Level 1 container standards as follows:

- Containers that meet DOT standards are in compliance with Subpart CC Level 1 container design standards. Safety-Kleen drums meet DOT's standards; or
- A container equipped with cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the

closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container such as a lid on a drum or a tarp on a roll-off box; or

 An open-top container in which an organic-vapor-suppressing barrier is placed on or over the hazardous waste in the container such that no hazardous waste is exposed to the atmosphere.

Level 1 Container Operating Requirements (40 CFR 264.1086(c)(3))

Whenever a hazardous waste is in a container using Level 1 controls, the covers shall be maintained in closed position except as follows:

- Adding hazardous waste or other materials to the container if the container is filled in one
 continuous operation, the container is closed upon conclusion of the filling operation. In
 the case of discrete or batch filling the container is to be closed:
 - a) upon filling the container to the intended final level;
 - b) the completion of a batch loading after which no additional waste will be added within 15 minutes;
 - c) the person performing the loading operation leaving the immediate vicinity of the container; or
 - d) the shutdown of the process generating waste being added to the container.
- Removing hazardous waste from the container: When discrete quantities of hazardous waste are removed from the container, covers shall be promptly secured upon completion of a batch removal after which no additional material will be removed from the container within 15 minutes or the person performing the unloading operation leaves the immediate vicinity of the container. RCRA empty containers may be open to the atmosphere at any time.
- Sampling wastes, measuring depth or quantity of wastes: Containers may be opened
 when sampling and/or measuring hazardous wastes, as well as adding or removing
 hazardous wastes from them. Covers must be replaced and secured on containers once

such activities are completed.

Level 1 Container Inspection Requirements

All Level 1 Containers that are not emptied upon receipt at the facility, are inspected upon arrival and each day thereafter until the container is transferred to a recycle center. Each Level 1 Container and its cover and closure devices are inspected for visible cracks, holes, gaps, or other open spaces. No container remains at the facility over 1 year. If a defect is detected for a container, cover, or closure devices, a repair shall be attempted within 24 hours after detection, and repair shall be completed as soon as possible, but no later than 5 calendar days. The container will be over-packed in a DOT approved container as a means of repair. A description of the types of inspections and example logs for containers can be found in Part II B.

Level 2 Containers (264.1086(d))

Hazardous waste containers with design capacity greater than 119 gallons and that are in light material service are subject to Level 2 container standards. These include totes, rolloff boxes that are greater than 119 gallons in capacity, and bulk tankers and rail car tankers. Level 2 containers are not stored at this facility, therefore 40 CFR 264.1087(d) does not apply at this location. However, these types of containers may undergo 10-day transfer at the facility, but since they will be considered "still in the course of transportation" Subpart CC will not be applicable.

Documentation of Compliance

Safety-Kleen prepared a written compliance plan for those units subject to Subpart CC, and instituted the plan on December 6, 1996. A copy of Subpart CC Compliance Plan is included in Appendix C.

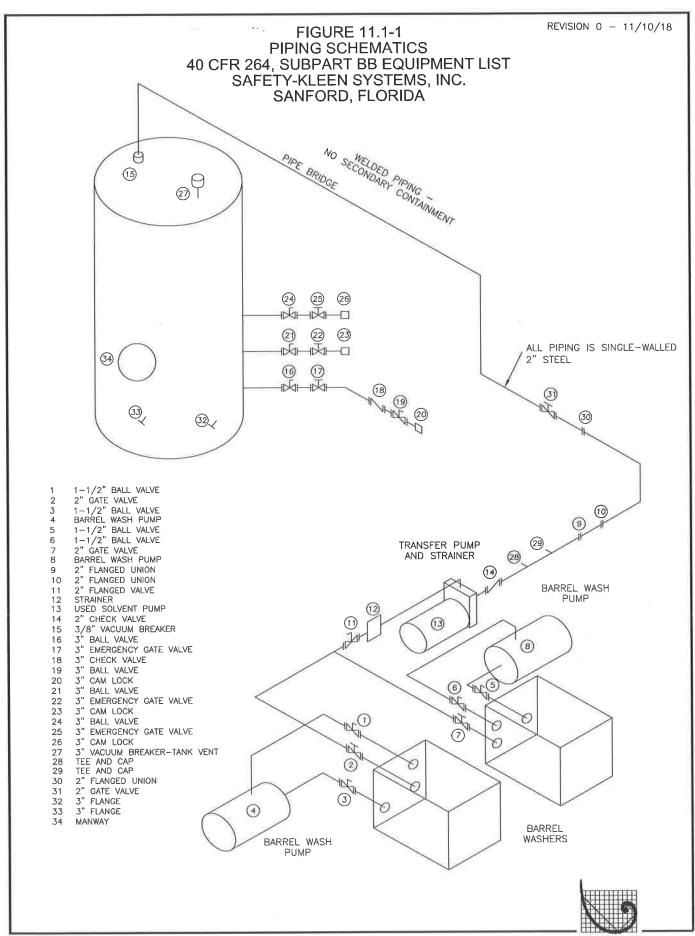


Figure 11.1-2 Safety-Kleen Sanford, Florida Tank Equipment/Subpart BB Tags

Tag Number Equipment Description

- 1. 1½" Ball Valve
- 2. 2" Gate Valve
- 3. 1½" Ball Valve
- 4. Barrel wash pump
- 5. 1½" Ball Valve
- 6. 1½" Ball Valve
- 7. 2" Gate Valve
- 8. Barrel wash pump
- 9. 2" Flanged union
- 10. 2" Flanged union
- 11. 2" Flanged Valve
- 12. Strainer
- 13. Used solvent pump
- 14. 2" Check Valve
- 15. 3/8" Vacuum Breaker
- 16. 3" Ball Valve
- 17. 3" Emergency Gate Valve
- 18. 3" Check Valve
- 19. 3" Ball Valve
- 20. 3" Camlock
- 21. 3" Ball Valve
- 22. 3" Emergency Gate Valve
- 23. 3" Camlock
- 24. 3" Ball Valve
- 25. 3" Emergency Gate Valve
- 26. 3" Camlock
- 27. 3" Vacuum breaker-tank vent
- 28. Tee and Cap
- 29. Tee and Cap
- 30. 2" Flanged union
- 31. 2" Gate Valve
- 32. 3" Flange
- 33. 3" Flange
- 34. Manway

Figure 11.1-3

Leak Detection and Repair Record

Equipment ID#	J	Branch #					
Description		Other					
				Date	In	spector's	Signature
How was potential or actual	leak detect	ed:					
Describe the potential or ac	tual leak:						
Instrument Monitoring v							
Results:							
2. Repair Attempt							
Method:							
Results =							
3. Repair Attempt							
Method:							
Results:							
4. Date of Successful Repa	ir						
(Must be completed within 15	days)						
Method:							
Results:							
5. Results:							
6. Results:							26
Monitoring Summary	(Ref	ferenc	e Numbe	r – See a	bove)		
	(1)	(2)	(3)	(4)	(5)	(6)	
Instrument#/Operator Calibration						_	
Background Reading Reading at Equipment Leak Detected?							

TABLE 11.2-1 SUMMARY OF TANK MANAGEMENT UNITS SUBJECTED TO SUBPART CC SAFETY-KLEEN SYSTEMS, INC. SANFORD, FL EPA ID NUMBER: FLD 984 171 165

Hazardous	Location of	EPA	Brief Waste	Average	Subpart	Control
Waste	Hazardous	Hazardous	Description	Volatile	CC	Option
Management	Waste	Waste Codes		Organic	Status	(See
Unit	Management	Managed		Concentration		Table
	Unit			of		11.2-3)
				Hazardous		
				Waste		
Waste Parts	See Figure	D001, and	Waste Parts	> 500	Level 1	1
Washer Solvent	2.2-6	codes listed in	Washer Solvent		Control	
Tank (20,000 g)		Note 1 below	(Petroleum			
			Naptha)			

NOTE: D001, D018, D039, D040

TABLE 11.2-2 SUMMARY OF CONTAINER MANAGEMENT UNITS SUBJECTED TO SUBPART CC SAFETY-KLEEN SYSTEMS, INC. SANFORD, FL EPA ID NUMBER: FLD 984 171 165

Hazardous	Location	EPA	Brief Waste	Average	Container	Subpart	Control
Waste	of	Hazardous	Description	Volatile	Туре	CC Status	Option
Management	Hazardous	Waste		Organic			(See
Unit	Waste	Codes		Concentration			Table
	Unit	Managed		of			11.2-3)
				Hazardous			
				Waste			
Container	See Figure	D001,	Waste Parts	> 500	Type A	Container	11
Storage Area	2.2-6	F002, F003,	Washer			Level 1	
		F005 and	Solvent			Controls per	
		codes listed	(Petroleum			264.1086(c)	
		in Note 1	Naptha), Dry				
		below	Cleaner				
			Wastes,				
			Paint				
			Wastes,				
			Immersion				
			Cleaner				
			waste				
Return and	See Figure	D001 and	Waste Parts	> 500	Type A	Container	11
Fill Area	2.2-6	codes listed	Washer			Level 1	
		in Note	Solvent			Controls per	
		below	(Petroleum			264.1086(c)	
			Naptha)				

Note: D004 thru D011, D018, D019, D021 thru D030, and D032 thru D043

Table 11.2-3

Subpart CC Control Options

Tanks

- 1. These tanks shall comply with Tank Level 1 controls which require tanks to have a fixed roof with no visible cracks, holes, gaps, or other spaces in accordance with 40 CFR 264.1084(c). The tank shall be visually inspected for defects prior to the tank becoming subject to these requirements and at least once a year thereafter [40 CFR 264.1084(c)].
- 2. These tanks are fixed roof tanks equipped with an internal floating roof and shall comply with Tank Level 2 controls in accordance with 40 CFR 264.1084(e). The internal floating roof shall be visually inspected for defects at least once every twelve months after initial fill unless complying with the alternative inspection procedures in 40 CFR 264.1084(e)(3)(iii). [40 CFR 264.1084.(d)(1)]
- 3. These tanks are equipped with an internal floating roof and shall comply with Tank Level 2 controls in accordance with 40 CFR 264.1084(f). The external roof seal gaps shall be measured in accordance with procedures contained in 40 CFR 264.1084(f)(3)(i)(A) within 60 days and at least once every 5 years thereafter. The external floating roof shall be visually inspected for defects at least once every 12 months after initial fill. [40 CFR 264.1084(d)(2)]
- 4. These tanks are vented through a closed-vent system to control device and shall comply with Tank Level 2 controls in accordance with 40 CFR 264.1084(g). The tank shall be equipped with a fixed roof and closure devices which shall be visually inspected for defects initially and at least once every year. The closed-vent system and control device shall be inspected and monitored in accordance with 40 CFR 264.1087. [40 CFR 264.1084(d)(3)]
- 5. These tanks are pressure tanks which shall comply with Tank Level 2 controls in accordance with 40 CFR 264.1084(h). [40 CFR 264.1084(d)(4)]
- 6. These tanks are located inside an enclosure that is vented through a closed-vent system to an enclosed combustion control device and shall comply with Tank Level 2 controls in accordance with 40 CFR 264.1084(i). The closed-vent system and control device shall be inspected and monitored in accordance with 40 CFR 264.1087 [40 CFR 264.1084(d)(5)]
- 7. These tanks have covers which have been specified as "unsafe to inspect and monitor" and shall comply with the requirements of 40 CFR 264.1084(I)(1) [40 CFR 264.1084(f) & (g)]

Table 11.2-3

Subpart CC Control Options

Containers

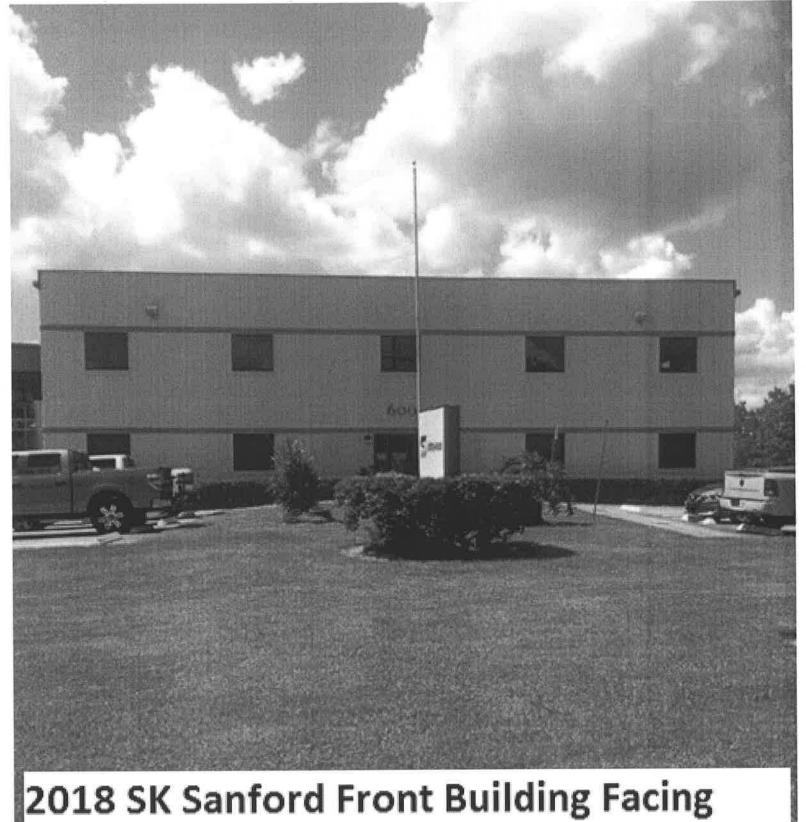
- 8. These containers have a design capacity greater than 0.1 m³ and less than or equal to 0.46 m³ and meet the applicable US DOT regulations under the Container Level 1 standards. The container shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(c)(4)(ii) & (d)(4)(ii)]
- 9. These containers have a design capacity greater than 0/1 m³ and less than or equal to 0.46 m³ and are equipped with a cover and closure devices which form a continuous barrier over container openings. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(i) & (c)(1)(i)]
- 10. These containers have a design capacity greater than 0/1 m³ and less than or equal to 0.46 m³ and are open-top containers in which an organic-vapor surpressor is placed on or over the hazardous waste in a container. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(i) & (c)(1)(iii)]
- 11. These containers have a design capacity greater than 0.46 m³, are not in light material service and meet the applicable US DOT regulations under Container Level 1 standards. The container shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(ii) & (c)(1)(i)]
- 12. These containers have a design capacity greater than 0.46 m³, are not in light material service and are equipped with a cover and closure devices which form a continuous barrier over container openings. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(ii) & (c)(1)(ii)]
- 13. These containers have a design capacity greater than 0.46 m³, are not in light material service and are open-top containers in which an organic-vapor surpressor is placed on or over the hazardous waste in a container. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(ii) & (c)(1)(iii)]
- 14. These containers have a design capacity greater than 0.46 m³, are in light material service and meet the applicable US DOT regulations under Container Level 2 standards. The container shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(iii) & (d)(4)(ii)]

Table 11.2-3

Subpart CC Control Options

- 15. These containers have a design capacity greater than 0.46 m³, are in light material service and operate with no detectable organic emissions as defined in 40 CFR 265.1081. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(iii) & (d)(1)(ii)]
- 16. These containers have a design capacity greater than 0.46 m³, are in light material service and that have been demonstrated within the preceding 12 months to be vapor tight using 40 CFR Part 60, Appendix A, Method 27. The container and its cover and closure devices shall be visually inspected for defects at the time the container first manages hazardous waste or is accepted at a facility. If a container remains at a facility for 1 year or more, it shall be visually inspected for defects at least once every twelve months. [40 CFR 264.1086(b)(1)(iii) & (c)(1)(i)]
- 17. These containers have a design capacity greater than 0.1 m³ that are used for treatment of a hazardous waste by a waste stabilization process and are vented directly through a closed-vent system to a control device in accordance with 40 CFR 264.1086(e)(2)(ii). The closed-vent system and control devices shall be inspected and monitored as specified in 40 CFR 264.1087. [40 CFR 264.1086(b)(2) & (e)(1)(i)]
- 18. These containers have a design capacity greater than 0.1 m³ that are used for treatment of a hazardous waste by a waste stabilization process and are vented inside an enclosure which is exhausted through a closed-vent system to a control device in accordance with 40 CFR 264.1086(e)(2)(i) & (ii).). The closed-vent system and control devices shall be inspected and monitored as specified in 40 CFR 264.1087. [40 CFR 264.1086(b)(2) & (e)(1)(ii)]

Appendix A
Site Photographs



2018 SK Sanford Front Building Facing West





2018 SK Sanford Return/Fill Facing West





2018 SK Sanford Container Storage Area Facing West

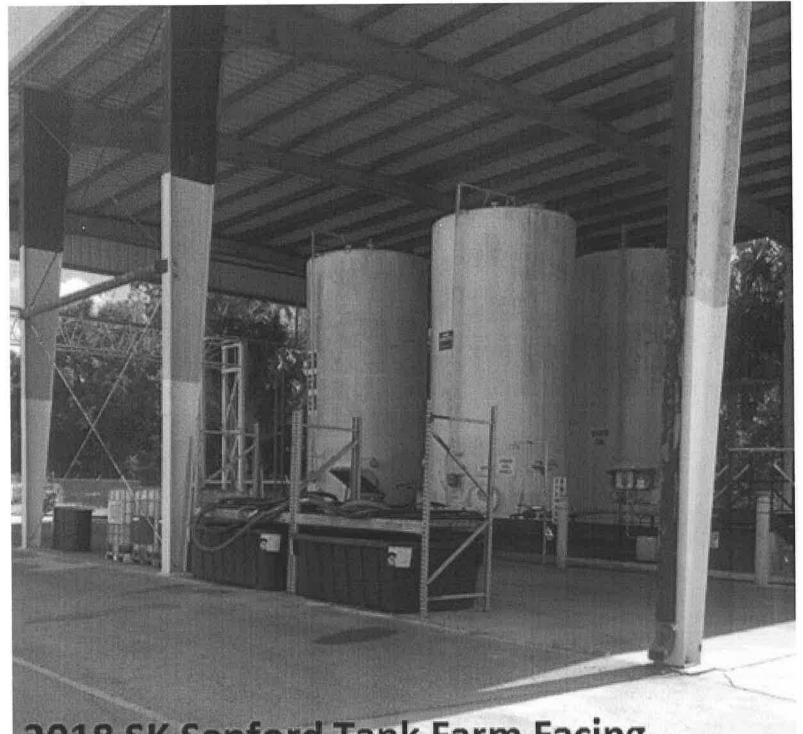


Facing East

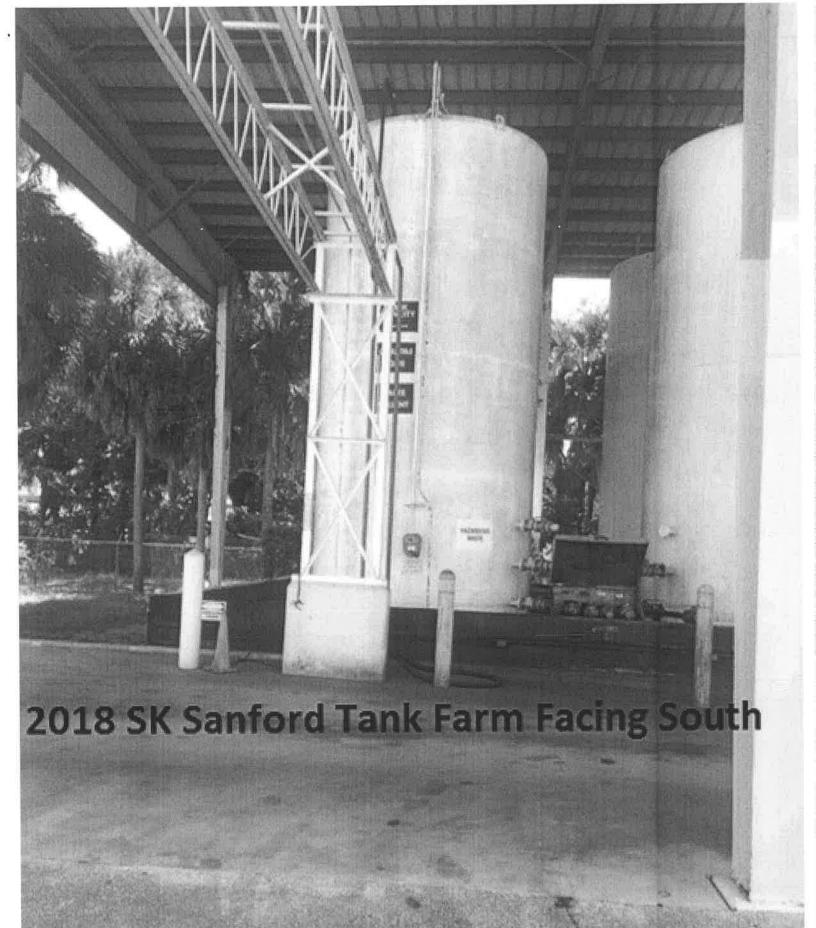




2018 SK Sanford Used Antifreeze Tank Facing South



2018 SK Sanford Tank Farm Facing Southeast



Appendix B
Chemical Analysis Reports
Annual Re-Characterization

2018 AR Codes and SKDOTS.xlsx - National

Waste Stream	Description Subcategory	2017 NATIONAL Profile	2017 National Waste Codes	Changes from 2017 to 2018	2018 National Waste Codes	2018 NATIONAL Profile
Aqueous Brake Cleaner	N/A	150100	None	No Change	None	150100
Branch Contaminated Debris (Solid would not carry D001)	W.A	Refer to CH Outbound	F002, F003, F005, D001, D004, D005, D006, D006, D007, D008, D009, D010, D011, D011, D014, D028, D022, D022, D025, D026, D032, D032, D032, D032, D039, D036, D037, D038, D036, D037, D038, D036, D040, D041, D042, D043	No Change	F002, F003, F005, D001, D004, D005, D006, D006, D007, D009, D010, D011, D018, D019, D022, D023, D025, D025, D033, D034, D035, D039, D031,	Refer to CH Outbound
Immersion Cleaner	AIN	150133	D027, D039, D040	No Change	D027, D039, D040	150133
	under 100 lbs	150045			п	150045
Parts Washer Solvent 105 Virgin	over 100 lbs (RO)		D001, D018, D039, D040	No Change	D001, D018, D039, D040	150085
	Non-RQ DF container (no DOT SP)	157045				157045
Rails MS Solvent	AIN	Refer to CH Outbound	D001, D018, D039, D040	No Change	D001, D018, D039, D040	Refer to CH Outbound
Darte Washer Solvent Studge Dimoster Mild	AIN	N	D001, D018, D039, D040	No Change	D001, D018, D039, D040	Refer to CH Outbound
Opte Mocher Solvent Took Bottoms (hilk)**	₹/N		D001, D018, D039, D040	No Change	D001, D018, D039, D040	Refer to CH Outbound
Pars Washer Colvent Lenn Doughs (Park)	A/N		i d		C	150055
Premium (150) / PRF / PDF Mil Spec Solvent	DF container (no DOT SP)		Dusa	No Change	88200	157055
	adl COA repair	Ì	Enga Fnos Daga Daga Daga		F003, F005, D001, D018, D035, D039,	150380
Paint Gun Cleaner (SK)	over 100 lbs (RQ)		D040	No Change	D040	150425
	under 100 lbs		Fnn3 D001 D018 D035 D039 D040	No Change	F003, F005, D001, D018, D035, D039,	150426
Clear Choice Paint Gun Cleaner	over 100 lbs (RQ)	150427		n	D040	150427
	Any size container	150375	E003 E005 D001 D018 D035		Eng3 Foo5 Doo1, Do18, Do35, Do39,	150375
Paint Waste Other ***	30 Gal Container	150376	7003, 1003, 2001, 2003, 2	No Change	D040	150376
	55 Gal Container	150377	9			150377
Universal Paint Gun Cleaner	N/A	403901294	D001, D018, D035, D039, D040	No Change	D001, D018, D035, D039, D040	403901294
Div Cleaner (Perc) Bottoms	NA	150589	F002, D007, D039, D040	No Change	F002, D007, D039, D040	150589
Dr. Cleaner (Perc) Fitters	N/A	150621	F002, D007, D039, D040	No Change	F002, D007, D039, D040	150621
Dry Cleaner (Perc) Separator Water	N/A	150520	F002, D039, D040	No Change	F002, D039, D040	150520
Opening Naphtha Bottoms	K/N	150422	D001, D007, D039, D040	No Change	D001, D007, D039, D040	150422
On Change Naththa Filters	A/N	150424	D001, D007, D039, D040	No Change	D001, D007, D039, D040	150424
Dr. Cleanin Narhtha Separator Water	₹Z	150423	D001, D039, D040	No Change	D001, D039, D040	150423
Agricol Park Washer Tank Bottoms	AIN	Refer to	NONE	No Change	None	Refer to CH Outbound
Aqueous Parts Washer Dumpster Sludge	NIA	Refer to	NONE	No Change	None	Refer to CH Outbound
	المرامون مستمان في في مريات على في مرمون أن يربا بد					
Parts Washer solvent tank bottoms are an entered wastes from the creation of solvent solvent and as	III III Cleanou ol solven essente como					

Statistical Analysis of Annual Waste Characterization Data

Prepared by Robert D. Gibbons Ph.D.

for

Safety Kleen July 23, 1998

1 Introduction

Since 1990, Safety-Kleen has undertaken a major analytical study each year to document the contaminants in some of its most common waste streams to determine which TCLP waste codes should appear on the manifest for that waste. This Annual Waste Recharacterization Program is both expensive and extensive. Upon review, it appeared that regulatory agency instructions for how to interpret the data might not have been in line with current policy, as reflected in SW846. The general approach is based on development of an upper 90% confidence limit for the true concentration of each constituent, which can in turn be directly compared to regulatory standards to determine if the waste code should or should not be added to a particular waste stream (e.g., Premium Gold Parts Washer Solvent 150). The regulatory basis for this type of comparison stems from U.S. EPA SW846 Chapter 9 (September 1986) guidance on determining if a waste stream is hazardous.² The primary complicating feature is the presence of large numbers of nondetects which raises serious question regarding the use of the parametric approach. In light of this concern, nonparametric methods are used throughout.3 Specifically, following U.S. EPA SW846, we construct a nonparametric 90% upper confidence limit (UCL) for the 50th percentile of the distribution (i.e., median), which is equivalent to the 90% UCL for the mean in the case of a symmetric distribution such as the normal distribution.

¹"Consequently, the CI employed to evaluate solid wastes is, for all practical purposes, a 90% interval." U.S. EPA SW846 (1986) chapter 9 page 6.

 $^{^{2}}$ "The upper limit of the CI for μ is compared with the applicable regulatory threshold (RT) to determine if a solid waste contains the variable (chemical contaminant) of concern at a hazardous level. The contaminant of concern is not considered to be present in the waste at a hazardous level if the upper limit of the CI is less than the applicable RT. Otherwise the opposite conclusion is reached. "U.S. EPA SW846 (1986) chapter 9 page 3

³"If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed. This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, April 1989, page 6-8

2 Method

Following Chapter 9 of SW846, the 90% UCL for the mean concentration obtained from a series of *n* representative samples is to be compared to the appropriate regulatory standard to determine if the waste stream is hazardous. If the UCL exceeds the standard, the waste stream is considered hazardous. The applicant must compute the UCL that is appropriate for the specific distributional form of the data. Given the large number of nondetects for many of the constituents, it is difficult if not impossible to clearly identify the underlying distributional form of the data. In this case, the U.S. EPA guidance indicates that a nonparametric alternative should be used.⁴

Nonparametric confidence limits are derived as follows. Given an unknown $P \times 100$ th percentile of interest (e.g. the 50th percentile or median), where P is between 0 and 1, and n concentration measurements, the probability that any randomly selected concentration measurements being less than the $P \times 100$ th percentile is simply P and the probability of exceeding the $P \times 100$ th percentile is 1 - P. In light of this, the number of sample values falling below the $P \times 100$ th percentile out of a set of $P \times 100$ th percentile out of $P \times 10$

The connection with the Binomial distribution can be used to determine an interval formed by a given pair of order statistics (i.e. ranked values) that will contain the percentile of interest, in this case the 50th percentile. Similarly, the Binomial distribution can also be used in constructing an upper limit (i.e. one-sided) for the percentile (e.g. a 90% upper confidence limit for the 50th percentile of the distribution). The computational formula for the cumulative binomial distribution B(x;n,p), representing the probability of getting x or fewer successes in n trials with success probability p is given by

$$Bin(x; n, p) \equiv \sum_{i=0}^{x} \binom{n}{i} p^{i} (1-p)^{n-i}$$

To draw inference regarding the P = 50th percentile, we set p = .5 in the previous equation. For a one-sided UCL we compute

$$1 - \alpha = 1 - Bin(U - 1; n, .5)$$

beginning from the sample median. We then increase U by one until in this case $1 - \alpha$ is equal to at least .90. The smallest value of U that provides $1 - \alpha \ge .9$ is then the order statistic (i.e., ranked value) that is the nonparametric 90% UCL for the 50th percentile of the distribution.

⁴ "If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed." U.S. EPA, 1989

⁵ "This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA (1989), page 6-8

3 Illustration

Consider the following most recent 50 data values for PCE (D039) obtained from Premium Gold Parts Washer Solvent-150.

Table 1
Premium Gold Parts Washer Solvent - 150
50 most recent samples in order of increasing concentration in ppm

<50.000	<1.000	< 0.100	< 0.100	< 0.100
< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
< 0.100	0.110	0.200	0.200	0.220
0.230	0.260	0.510	0.870	0.880
1.000	1.300	1.500	1.800	2.000
2.700	2.700	3.300	5.400	7.000
7.100	12.000	12.300	17.200	19.700
20.000	20.000	21.200	23.600	32.300
51.100	52.500	136.000	211.000	286.000
508.000	635.000	771.000	940.000	2810.000

For n =50, p =.5 and 1 - α = .9, we find that U = 31 is the smallest order statistic that provides 90% confidence or more (1 - α = .941). As such, we select the 31st largest value in Table 1 which is 7.1 ppm as our UCL. Since 7.1 ppm is larger than the standard of 0.7 ppm, then the D039 waste code is required for this waste stream.

4 Conclusion

The data in the following package have been interpreted using the methodology described. The waste codes for each stream were determined as those parameters for which the 90% UCL for the median concentration was above the regulatory limit, based on review of the last two years of samples or the most recent 50 samples, whichever yielded the larger number of samples to consider.

YEAR	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2016	! }
FACILITY	Archdale	Avon	Barre	Boise	Chandler	Charlotte	Chesapeake	Chester	Clackamas	Cohoes	Lackawanna	Los Angeles	Oklahoma City	Sacramento	St Pauls	Syracuse	Tallahassee	Wichita	Santa Ana	Albuquerque	Archdale	Avon	Boise	Chandler	Charlotte	Chester	Clackamas	Los Angeles	Sacramento	Santa Ana	St. Pauls	Syracuse	Tulsa	Albuquerque	Archdale	Avon	Bolse	Chandler	Chesapeake	Clackamas	Farmington	Lackawanna	Los Angeles	Kaleigh	Salisbury	Salisbury	Santa Ana	St Pauls	Syracuse	VVICHITA	Sacramento	l ackawanna	Lackawaliila Tampa	1
COUNT																																			22																			
QUALIFIER REPORTING LIMIT Uth VALUE COUNT																																			32																			
LIMIT																																																						
PORTING	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.0	0.2		0. V	;
LIFIER RE	0	\supset	D	_	D	Π	n	n	\cap	-	D	D	n	n	D	_	\cap		· ⊃	=	. =	· ⊃	П		· ⊃			n			\supset	⊃	n)	n	⊃ :	> :	D	> :	\supset	D	⊃	⊃	⊃ :	-	∩ :	- :	- :	o :	o :	> :	o :	o =	5
																																					,			. 1			_1	_1										
A UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	J/bm	J/bm	/bm	mo/l	ma/l	ma/L	. I/bm	ma/L	ma/L	T/bm	ma/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1/GIII
NKED DATA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1			0	. 0		. 0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.0	0	0.1 25.0	0.40
RESULT RAN	.2	0.2	.2	.2	.2	.2		.2		.2	0.2	1.2	0.2	0.2	.2			20		2	2.0	2.0	2.0	2.0	2.0	ار د ا	0.0	0.2	20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.2	0.2	0.2	0.2	0.2	0.2	2.0	0.2	0.0
	58-1	_	36-1 0.		32-1 0.3	-	26-1 0.	71-1	32-1 0	_	_	0 1-20			_				- —							-		. —	-		-	_		_		_	_	_	_	_	γ-	_	_	_	_	_	_	-	. .	ς.	- -	. .		_
LAB ID	180-43158-1	180-43893-	180-48336-	180-42910-1	180-47232-	180-44147-	180-48626-	180-44371-	180-47762-	180-43585-	180-43632-	180-46602-	180-45019-1	180-49155-	180-48174-	180-43140-1	180-48827-	180-47808-	180-52259-	180-58746	180-551-5-	180-55281	180-52549-	180-52469-	180-58663-	180-54773-	180-58670-	180-57952-	180-58630-	180-58155-	180-56008-	180-55123-	180-58733-1	180-70242-	180-65249-	180-65699-1	180-68705-	180-64608-	180-70328-	180-69202-	180-68419-	180-65698-	180-68413-	180-70393-	180-70633-	180-70804-	180-67800-	180-68514-	180-65397-	180-64792-	180-70453-	180-60246-	180-59972-	180-58149-
ETER	1-Dichloroethene	roethene	roethene	1-Dichloroethene	roethene	roethene	1-Dichloroethene	roethene	roethene	roothono	roothone	, I-Dichloroethene	1-Dichloroethene	1 Dichloroethene	, I-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	1,1-Dichloroethene																											
PARAMETER	1,1-Dichlo	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichlo	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichlo	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1 1-Dichloroethene	1, 1-Dichloroethene	1,1-Dichloroethene	1 1 Dichloroethene	1, I-Dichloroethene	1,	1 1-Dichlo	1,1-Dichlo	1, 1-Dichlo	1,1-Dichlo	1. Dichlo	1 1-Dichlo	1. Dichlo	1. Dichlo	1.1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlc	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlc	1,1-Dichic	1,1-Dichlo	1,1-Dichic	1,1-DICHE									
	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Closing		Cleaner	Cleaner	Cleaner	Cleaner	Cleaner			Cleaner	Cleaner		Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Cleaner	Brake Cleaner	Brake Cleaner	Brake Cleaner	Brake Cleaner	Cleaner	Brake Cleaner	Cleaner
MATRIX	Aqueous Brake Cleaner	Agueous Brake (Aqueous Brake Cleaner	ous Brake (Brake			Brake	Brake	Brake	Brake	Brake		Brake	Brake	Brake	Brake	Drake Drake	Brake Brake		Diake	Broke	ם מאקים מאקים	Diana	Brake	ם מאקנים מאקנים	Brake	Brake	Brake	Right	Brake	Brake	Brake	Brake	Brake	ous Brake	Aqueous Brake	Brake	Brake	Brake	Brake	Brake	Brake	Brake	Brake	Brake	ous Brake	ous Brake	ous Brake	ous Brake	Brake	Brake	ous Brake	Aqueous Brake Cleaner
	Aquec	Aguec	Aguec	Aqueous	Aquec	Aquec	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aguec	Aqueous	Agueous	Agueous	Adueous	Adieons		Aqueous		Shoonby	Shoonby		Adueous	snoanby		Shoonby	0 de	Adueous	Adiabalia	Adjects	Agueous	Aqueous	Aqueous	Aque	Aqueous	Aque	Aqueous	Adneons	Adneons	Aqueous	Aqueous	Aqueous	Adne										

2015 2015 2015 2015 2015 2015 2015 2015
Tulsa Archdale Avon Barre Boise Charlotte Charlotte Charlotte Charlotte Chester Clackaman Lackawanna Los Angeles Syracuse Tallahassee Wichita Santa Ana St. Pauls Syracuse Tallahassee Charlotte Charlotte Chester Clackamas Los Angeles Sacramento St. Pauls Syracuse Tulsa Avon Boise Charlotte Chester Clackamas Tulsa Albuquerque Archdale Avon Boise Clackamas Farmington Lackawanna Los Angeles Sarata Ana St. Pauls Syracuse Vichita Salisbury
22
S. S
0.0000000000000000000000000000000000000
7-26 E E E E E E E E E E E E E E E E E E E
\$2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
000000000000000000000000000000000000000
180-44781-1 180-43158-1 180-43893-1 180-43893-1 180-42910-1 180-43158-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5531-1 180-5608-1 180-6608-1 180-6608-1 180-68705-1 180-68413-1 180-6599-1
1,1-Dichloroethene 1,2-Dichloroethane
Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2015 2015 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2016
Tulsa Archdale Avon Barre Boise Charlotte Charlotte Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna Los Angeles Syracuse Tallahassee Wichita Sarta Ana Avon Boise Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Chester Clackamas Los Angeles Sarta Ana St. Pauls Syracuse Tulsa Albuquerque Avon Boise Chardale Avon Boise Clackamas Los Angeles Sarta Ana St. Pauls Syracuse Tulsa Albuquerque Archdale Avon Boise Chardler Chesapeake Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Santa Ana	Syracuse Syracuse Wichita Sacramento Barre Lackawanna Tampa
Ω	
35	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	000000
7/56 E E E E E E E E E E E E E E E E E E E	7,8 m 7,8 m 7,8 m 7,8 m 1,8 m
60000000000000000000000000000000000000	0.1 0.1 0.1 0.25
	0 0 0 0 0 0
180-44781-1 180-43158-1 180-43336-1 180-42910-1 180-42910-1 180-44147-1 180-44371-1 180-4371-1 180-43602-1 180-43602-1 180-43632-1 180-45619-1 180-45619-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-68705-1 180-68705-1 180-68705-1 180-68705-1 180-68705-1 180-68413-1 180-68413-1	180-68514-1 180-65397-1 180-64792-1 180-70453-1 180-59972-1 180-58149-1
1,2-Dichloroethane 1,4-Dichlorobenzene 1,4-Dic	1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene
Brake	Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner

	2017 2017 2017 2017 2015 2016 2015 2016 2015
Tulsa Archdale Avon Barre Charlotte Chesapeake Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Avon Boise Charlotte Santa Ana St. Pauls Syracuse Tulsa Avon Boise Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Santa Ana	St Pauls Syracuse Wichita Sacramento Barre Lackawanna Chester Tampa Boise Cohoes Los Angeles Tallahassee
75	
8	
200 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	0.05 0.05 0.05 0.05 0.05 0.05 0.13 0.25 0.25 0.25
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
7,500 1,000 1,	
100 1025 1	7,025 7,025 7,025 7,025 7,025 7,025 7,065 7,125 7,125 0.6
100 0.025	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
200 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	0.05 0.05 0.05 0.05 0.05 0.05 0.13 0.25 0.25
180-44781-1 180-43158-1 180-43158-1 180-48336-1 180-4417-1 180-48626-1 180-49155-1 180-49155-1 180-49155-1 180-49155-1 180-49155-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-699-1 180-699-1 180-699-1 180-699-1	180-68514-1 180-65397-1 180-64792-1 180-70453-1 180-59972-1 180-44371-2 180-58149-1 180-42910-1 180-43585-1 180-48827-1
enzene ophenol	ophenol
1,4-Dichlorobenzene 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol
Brake	Brake Brake Brake Brake Brake Brake Brake Brake Brake
Aqueous Brake	Aqueous

2015 2015 2015 2015 2015 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Archdale Avon Barre Chandler Charlotte Chesapeake Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Albuquerque Archdale Avon Boise Chandler Chester Clackamas Sarramento Santa Ana St. Pauls Syracuse Tulsa Albuquerque Archdale Avon Boise Chandler Chester Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Salisbury Salisbury Salisbury Santa Ana St Pauls Syracuse Ulackawanna Lackawanna Lackawanna Chester Tampa Boise Cohoes Lackawanna Chester Tampa Boise Cohoes Lackawanna
45
8. A.
0.055 0.055
7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6
0.025 0.025
0.055 0.055
180-43158-1 180-43893-1 180-43836-1 180-44147-1 180-44147-1 180-45019-1 180-45019-1 180-45019-1 180-45019-1 180-5528-1 180-5528-1 180-5528-1 180-5528-1 180-5528-1 180-5528-1 180-5528-1 180-5528-1 180-5608-1 180-5608-1 180-5608-1 180-5608-1 180-5608-1 180-5608-1 180-5608-1 180-5608-1 180-6509-1
2,4,6-Trichlorophenol
Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	
Avon Barre Chandler Charlotte Chesapeake Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Albuquerque Archdale Avon Boise Charlotte Avon Boise Clackamas Farmington Lackawanna Los Angeles Farmington Lackawanna Los Angeles Raleigh Salisbury	
75	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
1,000 1,	
0.025 0.025	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	
180-43893-1 180-48336-1 180-48336-1 180-48626-1 180-43632-1 180-43632-1 180-43140-1 180-43140-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-6539-1 180-6539-1 180-6539-1 180-6733-1 180-6733-1 180-6733-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1	
2,4-Dinitrotoluene 2,4-Dinitroto	
Aqueous Brake Cleaner	

	2015 2016 2015 2015 2015 2015
Avon Barre Chandler Chandler Chesapeake Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Avon Boise Chandler Santa Ana St. Pauls Tulsa Albuquerque Archdale Avon Boise Chandler Chandler Chandler Chandler Santa Ana St. Pauls Tulsa Albuquerque Archdale Avon Boise Clackamas Farmington Lackawanna Lackawanna Syracuse Sacramento Barre Lackawanna Syracuse Sacramento Barre Lackawanna Syracuse Sacramento Barre Lackawanna Syracuse Syracuse Cohoes	Chester Tampa Tallahassee Syracuse Archdale Boise
25	
8	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.0
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	007777
	mg/L mg/L mg/L mg/L
0.025 0.025	0.5 0.97 0.033 0.035 0.035
0.055 0.055	1 1 0.97 0.033 0.035
180-43893-1 180-48386-1 180-44147-1 180-47762-1 180-45019-1 180-5259-1 180-52531-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6549-1 180-6598-1 180-6598-1 180-6598-1 180-6598-1 180-6598-1 180-6780-1 180-6598-1 180-6598-1 180-6598-1	180-44371-2 180-58149-1 180-48827-1 180-43140-1 180-42910-1
2-Methylphenol 3-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol Arsenic Arsenic
Aqueous Brake Cleaner	Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner

2016 2016 2016 2016 2016 2016 2016 2016	2015 2015 2016
Oklahoma City Clackamas Charder Cohoes Barre Clackamas Lackawanna Wichita Santa Ana Albuquerque Archdale Boise Charlotte Clackamas Los Angeles Sacramento Santa Ana St. Pauls Syracuse Boise Chandler Raleigh Santa Ana St. Pauls Syracuse Boise Chandler Raleigh Santa Ana Syracuse Boise Chandler Avon Chesapeake Salisbury Barre St Pauls Farmington Chesapeake Salisbury Los Angeles Sacramento St Pauls Lackawanna Tallahassee Chester Avon Chester Tulsa Tanpa	Barre Lackawanna Clackamas
29	
x	
000000000000000000000000000000000000000	000
7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5	mg/L mg/L mg/L
0.045 0.048 0.048 0.054 0.055 0.055 0.055 0.055 0.055 0.057 0.067 0.069 0.069 0.069 0.067 0.069	0.011 0.029 0.032
0.045 0.045 0.048 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.053 0.053 0.053 0.054 0.054 0.053 0.054 0.055	0.011 0.029 0.032
180-45019-1 180-69202-1 180-53469-1 180-43585-1 180-4762-1 180-47762-1 180-5531-1 180-5531-1 180-5531-1 180-5533-1 180-65699-1 180-65691-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1	180-48336-1 180-43632-1 180-58670-1
Arsenic	Barium Barium Barium
	ner ner ner
Brake Cleaner	Brake Cleaner Brake Cleaner Brake Cleaner
Aqueous Brake Cleaner	Aqueous Br Aqueous Br Aqueous Br
₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹	444

2016 2017 2015 2015 2015 2015 2016 2016 2016 2017 2016 2017 2017 2017 2017 2017 2017 2017 2017	
Santa Ana Chesapeake Chandler St Pauls Avon Charlotte Archdale Avon Chandler Avon Chandler Avon Chandler Avon Chandler Avon Chardale Boise Syracuse Avon Eackawanna Boise Chester Tampa Raleigh Cohoes Sacramento Chester Tampa Raleigh Cohoes Sacramento Chester Salisbury Sarcamento Chandler Clackamas Chester Salisbury Sarcamento Chardale Sarcamento Syracuse Barre Clackamas Tallahassee Lackawanna Syracuse Lackawanna Syracuse Lackawanna Syracuse Los Angeles Tulsa Archdale Clackamas Tulsa Avon Barre	
25	
98 88	
00000 00040000000000000000000000000000	
7/5 E E E E E E E E E E E E E E E E E E E	,
0.043 0.047 0.073 0.073 0.077 0.087 0.087 0.032 0.032 0.033 0.033 0.034 0.034 0.035 0.035 0.035 0.035 0.037 0.038 0.038 0.037 0.038	
0.043 0.047 0.052 0.073 0.073 0.073 0.073 0.073 0.032 0.032 0.033 0.033 0.034 0.035	,
180-58155-1 180-47232-1 180-48174-1 180-48174-1 180-48174-1 180-48174-1 180-48189-1 180-4910-1 180-5528-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-658149-1 180-658149-1 180-658141-1 180-68514-1 180-68514-1 180-68810-1 180-68810-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68811-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1 180-68827-1	
Barium)
Aqueous Brake Cleaner	

2015 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2016
Boise Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna Oklahoma City Sacramento St Pauls Syracuse Tallahassee Wichita Santa Ana Albuquerque Avon Boise Charlotte Avon Boise Clackamas Farmington Lackawanna Los Angeles Salisbury Santa Ana St. Pauls Syracuse Nichita Syracuse Wichita Saramanto Barre Lackawanna Los Angeles Tampa Tutisa Archdale	Clackamas
25	
35	
	0.05
~ · · · · · · · · · · · · · · · · · · ·	ר נ
7/66 7/66 7/66 7/66 7/66 7/66 7/66 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	mg/L
0.0000 1.000000000000000000000000000000	0.0033
	0.0033
180-42910-1 180-442910-1 180-44147-1 180-44371-1 180-43371-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5253-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6599-1 180-6533-1 180-6533-1 180-68514-1 180-68514-1 180-6533-1	180-58670-1
Benzene	Cadmium
Aqueous Brake Cleaner	Aqueous Brake Cleaner Aqueous Brake Cleaner

2015 2015 2015 2017 2016 2017 2018 2017 2018 2018 2019
Los Angeles Boise Chesapeake Albuquerque Oklahoma City Sacramento St Pauls Tampa Archdale Avon Barre Charder Avon Boise Clackamas Famington Lackawanna Syracuse Clackamas Famington Lackawanna Raleigh Salisbury Santa Ana Syracuse Wichita Sacramento Barre Tulsa Syracuse Wichita Sacramento Chester Cohoes Los Angeles Avon Chester Tulsa St. Pauls Avon Rachdale
25
\$2 28
0.00 0.00
m
1
0.0048 0.0083 0.0087 0.0087 0.0087 0.0087 0.009 0.015 0.025
0.0048 0.0053 0.0087 0.0087 0.0087 0.005 0
180-46602-1 180-42910-1 180-42910-1 180-42910-1 180-58149-1 180-58149-1 180-43138-1 180-43138-1 180-43138-1 180-43138-1 180-43138-1 180-43138-1 180-43138-1 180-43138-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-52549-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65337-1 180-65337-1 180-65337-1 180-65337-1 180-65133-1 180-65733-1 180-65733-1
Cadmium Cadmiu
Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017
Boise Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna Los Angeles Oklahoma City Sacramento St Pauls Syracuse Tallahassee Wichita Santa Ana Albuquerque Archdale Archdale Archdale Archdale Charlotte Sacramento Santa Ana St. Pauls Syracuse Tulsa Albuquerque Archdale	Avon Boise Chandler Chesapeake Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Santa Ana St Pauls Syracuse Wichita Syracuse Wichita Barre Lackawanna Tampa Tulsa Archdale Avon Barre
89	
SE	
	000000000000000000000000000000000000000
7/6m 7/6m 7/6m 7/6m	7/5 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6
000000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	000000000000000000000000000000000000000
180-42910-1 180-47232-1 180-44147-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-4373-1 180-5531-1 180-5531-1 180-5531-1 180-5549-1 180-5549-1 180-5549-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1	180-65699-1 180-68705-1 180-68408-1 180-68413-1 180-68413-1 180-7033-1 180-7033-1 180-70804-1 180-67800-1 180-67800-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-685149-1 180-685149-1 180-68149-1 180-43158-1
Carbon Tetrachloride	Carbon tetrachloride
Aqueous Brake Cleaner	Brake Brake Brake Brake Brake Brake Brake Brake Brake Brake

2015 2015 2015 2015 2015 2015 2015 2015	1
Boise Charlotte Charlotte Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna Los Angeles Oklahoma City Sacramento St Pauls Syracuse Tallahassee Wichita Santa Ana St. Pauls Sacramento Santa Ana St. Pauls Syracuse Tulsa Avon Boise Charlotte Santa Ana St. Pauls Syracuse Lackawanna Los Angeles Farmington Lackawanna Los Angeles Raleigh Salisbury Sarta Ana St Pauls Syracuse Wichita Barre Lackawanna Tampa Tulsa Archdale) ;)
\$5°	
32	
	1
)
7/56 E E E E E E E E E E E E E E E E E E E	- - - -
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	- 5
22222222222222222222222222222222222222	i
180-42910-1 180-47232-1 180-44147-1 180-44147-1 180-44371-1 180-43585-1 180-43632-1 180-4562-1 180-45019-1 180-45019-1 180-5259-1 180-5608-1 180-5609-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6793-1 180-68413-1 180-6799-1 180-6799-1	000004-001
Chlorobenzene	
Aqueous Brake Cleaner	Aqueous brake Cleaner

2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017
Boise Chandler Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna Los Angeles Oklahoma City	St Pauls St Pauls Syracuse Tallahassee Wichita Santa Ana Albuquerque Archdale Avon Boise Chardete Ana St. Pauls Syracuse Tulsa Albuquerque	Archdale Avon Boise Chandler Chesapeake Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Salisbury Salisbury Santa Ana St Pauls Syracuse Wichita Sacramento Barre Lackawanna Tulsa Syracuse Chandler Los Angeles
		55
		35
000000000000000000000000000000000000000		002222222222222222222222222222222222222
	, , , , , , , , , , , , , , , , , , ,	~ ~ ~ C C C C C C C C C C C C C C C C C
mg/L mg/L mg/L mg/L mg/L	7,6E	7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w
00000000000	20000000000000000000000000000000000000	0.000.0 0.000.0 0.000.0 0.000.0 0.000.0 0.000.0 0.000.0 0.000.0
00000000000000000000000000000000000000		0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03
180-42910-1 180-47232-1 180-44147-1 180-48626-1 180-4371-1 180-43585-1 180-43632-1 180-45019-1	180-49155-1 180-48174-1 180-43140-1 180-47808-1 180-55531-1 180-55531-1 180-5522-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-5865-1 180-58630-1 180-58155-1 180-58155-1	180-65249-1 180-65699-1 180-64608-1 180-69202-1 180-68419-1 180-65698-1 180-65698-1 180-70393-1 180-67303-1 180-67301-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-65397-1 180-6514-1 180-6514-1
Chloroform	Chloroform	Chloroform
Brake Brake Brake Brake Brake Brake Brake	Aqueous Brake Cleaner	Brake

	71 97 71 91 91 91 91 91 91 91 91 91 91 91 91 91
_	2017 2017 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018
Santa Ana Boise Chesapeake Lackawanna Chandler Chandler Wichita Wichita Wichita Chandler Barre Archdale Boise Syracuse Sarramento Clackamas Chesapeake St Pauls Syracuse Avon Barre Charlotte Clackamas Lackawanna Oklahoma City Boise Avon Farmington	Albuquerque Lackawanna Santa Ana Clackamas Salisbury Salisbury Sacramento Raleigh Sacramento Los Angeles St. Pauls Tulsa Avon Archdale Tallahassee St Pauls Tulsa Chester Cohoes Tampa Avon Barre Chandler
	99
	58
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
⁰	
	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
0.0095 0.0095 0.001 0.011 0.012 0.015 0.015 0.019 0.022 0.022 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.026 0.027 0.027 0.027 0.027 0.028 0.031 0.035 0.035 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.042 0.042 0.042 0.042 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052
0.0095 0.0095 0.0017 0.017 0.017 0.015 0.015 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.035 0.05	0.026 0.027 0.027 0.027 0.027 0.032 0.035 0.045 0.045 0.045 0.062 0.062 0.062 0.072 0.062 0.072 0.08 0.05 0.05 0.05 0.05 0.05 0.05 0.05
180-67800-1 180-68705-1 180-65698-1 180-65698-1 180-65698-1 180-6732-1 180-6732-1 180-6731-1 180-65531-1 180-65259-1 180-65397-1 180-65259-1 180-4831-1 180-4833-1 180-43632-1 180-44147-1 180-43632-1 180-43632-1 180-43632-1 180-43632-1 180-43632-1 180-68419-1	180-70242-1 180-59972-1 180-69202-1 180-69202-1 180-70833-1 180-70833-1 180-70833-1 180-58630-1 180-58630-1 180-58630-1 180-58282-1 180-58282-1 180-68249-1 180-68249-1 180-68413-1 180-68413-1 180-84781-1 180-8473-1 180-44781-1 180-44781-1 180-44781-1 180-44781-1
Chromium	Chromium
Brake e Brake	Aqueous Brake Cleaner

2015 2015	2017 2017 2017 2017 2015 2015 2015 2015 2015
Charlotte Chester Clackamas Cohoes Lackawanna Oklahoma City Sacramento St Pauls Tallahassee Wichita Santa Ana Archdale Boise Los Angeles Syracuse Avon Boise Charlotte Clackamas Farmington Lackawanna Archdale Avon Boise Chardler Clackamas Farmington Lackawanna Los Angeles Salisbury	Salisbury St Pauls Syracuse Barre Wichita Tulsa Archdale Avon Barre Chandler
75	
8 S	
	0.05 0.05 0.05
	2222
Degrees F	Degrees F Degrees F Degrees F Degrees F Degrees F Mg/L Mg/L Mg/L
7.500 7.500	> 200 > 200 > 200 > 200 127 81 0.025 0.025 0.025
× × × × × × × × × × × × × × × × × × ×	> 200 > 200 > 200 > 200 127 127 0.05 0.05 0.05 0.05
180-44147-1 180-44371-1 180-43585-1 180-43621-1 180-43632-1 180-49155-1 180-49155-1 180-49105-1 180-5259-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52608-1 180-52608-1 180-52608-1 180-58630-1 180-58630-1 180-58155-1 180-58155-1 180-58155-1 180-58155-1 180-58155-1 180-58155-1 180-58155-1 180-6700-1 180-6700-1 180-6700-1	180-70804-1 180-68514-1 180-65397-1 180-60246-1 180-64792-1 180-43158-1 180-43893-1 180-48336-1
Flash Point	Flash Point Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene
Aqueous Brake Cleaner	Brake Brake Brake Brake Brake Brake Brake

	2016 2015 2015 2016 2016 2015 2015 2015 2015 2015
Sa S	Tampa Boise Cohoes Los Angeles Tallahassee Archdale Avon Barre Chandler
72	
x	
	m 10 10 10 10 10 10 10 10
0.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.13 0.25 0.25 0.05 0.05 0.05 0.05
	mg/L mg/L mg/L mg/L mg/L mg/L
0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.065 0.125 0.125 0.125 0.025 0.025 0.025 0.025
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.13 0.25 0.25 0.25 0.05 0.05 0.05
180-44147-1 180-48626-1 180-43632-1 180-45619-1 180-49155-1 180-43140-1 180-5531-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-5528-1 180-5528-1 180-5529-1 180-5639-1 180-58630-1 180-58630-1 180-58630-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6733-1 180-68413-1 180-67800-1 180-67800-1 180-67800-1 180-67800-1 180-67800-1	180-58149-1 180-42910-1 180-43585-1 180-48827-1 180-43158-1 180-43158-1 180-43356-1 180-47232-1
Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene
Aqueous Brake Cleaner	Aqueous Brake Cleaner Aqueous Brake Cleaner

2022 2025 2025 2025 2026 2026 2026 2027 2027 2027 2027 2027	2015 2015 2015
Chesapeake Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Albuquerque Archdale Avon Boise Chardler Chardler Chardler Archdale Avon Boise Chardler Avon Boise Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Salisbury Santa Ana St Pauls Syracuse Wichita Sacramento Barre Lackawanna Chester Tampa Boise Cohoes Los Angeles Tallahassee Archdale	Chandler Charlotte Chesapeake
5.4	
&	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.05 0.05 0.05
	000
*	
	mg/L mg/L mg/L
0.025 0.025	0.025 0.025 0.025
0.000000000000000000000000000000000000	0.05
180-48626-1 180-4762-1 180-43632-1 180-43140-1 180-47808-1 180-55531-1 180-55531-1 180-55531-1 180-55531-1 180-55531-1 180-55630-1 180-56699-1 180-56699-1 180-56699-1 180-6699-1 180-6699-1 180-6699-1 180-6533-1 180-6533-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1 180-6539-1	180-47232-1 180-44147-1 180-48626-1
Hexachlorobutadiene	
Aqueous Brake Cleaner	Brake Brake Brake

2015 2015 2015 2015 2015 2015 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Clackamas Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Albuquerque Archdale Avon Boise Chardele Avon Boise Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Santa Ana St Pauls Syracuse Wichita Sacramento Barre Lackawanna Chester Tampa Boise Cohoes Cohoes Cohoes Tallahassee Oklahoma City Archdale Avon Clackamas St Pauls
42
45
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
0.025 0.025
0.05 0.05
180-47762-1 180-43632-1 180-49155-1 180-48174-1 180-43140-1 180-5228-1 180-5228-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-55231-1 180-56699-1 180-58413-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-6699-1 180-67328-1 180-67328-1 180-67328-1 180-67328-1 180-67328-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1 180-67358-1 180-43383-1
Hexachloroethane Hexach
Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2015
Charlotte Chesapeake Clackamas Lackawanna Syracuse Tallahassee Wichita Santa Ana Archdale Boise Chardler Charlotte Los Angeles Sacramento Santa Ana Syracuse Avon Boise Chardler Clackamas Farmington Lackawanna Salisbury Santa Ana Syracuse Avon Boise Chardale Avon Boise Chardale Avon Boise Chardale Avon Clackamana Salisbury Santa Ana Syracuse Avon Clackamana Salisbury Albuquerque Eos Angeles Lackawanna Sacramento Albuquerque Los Angeles Chester Avon Chester Tulsa Cohoes Tampa St. Pauls Lackawanna Salisbury Avon Lackawanna Salisbury Avon Lackawanna	St. Pauls Avon Archdale
15	
35	
0.000.000.000.000.000.000.000.000.000.	0.002 0.002 0.002
בככב כ בכבב כבבבבבבבבבבבבבבבבבבבב	² B ⊃
	mg/L mg/L mg/L
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.00054 0.00092 0.001
0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	0.00054 0.00092 0.002
180-44147-1 180-48626-1 180-43632-1 180-43632-1 180-48827-1 180-48827-1 180-48827-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5269-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65247-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-65249-1 180-68413-1 180-68413-1 180-68733-1 180-68733-1 180-68733-1 180-68733-1	180-56008-1 180-55282-1 180-43158-1
Lead Lead Lead Lead Lead Lead Lead Lead	Mercury Mercury Mercury
Aqueous Brake Cleaner	Brake Brake Brake

2015 2015 2015 2015 2015 2015 2015 2015	2017 2017 2017 2017 2017
	Archdale 201 Avon 201 Boise 201 Chandler 201 Chesapeake 201
35	
E Company of the Comp	
0.002 0.003 0.	0 0 0 0 0 0
	22222
7/56E E E E E E E E E E E E E E E E E E E	7/6w W8/7 W8/7 W8/7
0.000 0.000	
0.002 0.003 0.	0 0 0 0 0 0 0
180-48336-1 180-42910-1 180-42910-1 180-42910-1 180-42910-1 180-48626-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-4371-1 180-43827-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-531-1 180-531-1 180-531-1 180-58630-1 180-58631-1 180-58631-1 180-58631-1 180-58631-1 180-58631-1 180-58631-1 180-68713-1 180-68713-1 180-68713-1 180-688113-1 180-67800-1 180-67800-1 180-67801-1 180-6331-1 180-6331-1	180-70242-1 180-65249-1 180-65699-1 180-68705-1 180-70328-1
Mercury	Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone
Brake e Brake	Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner

Clackamas 2017 Lackawanna 2017 Lackawanna 2017 Ralighuy Salisbury 2017 Salisbury 2017 Santa Ana 2017 Charlotte 2015 Syracuse 2015 Ayracuse 2016 Charlotte 2016 Charlotte 2016 Sacramento 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Sacramento 2016 Syracuse 2016 Sacramento 2016 Charlotte 2016 Syracuse 2016 Sacramento 2016 Charlotte 2016 Sacramento 2016 Syracuse 2016 Charlotte 2015 Avon 2015 Charlotte 20	
98	
0.000000000000000000000000000000000000	0.05
	> ⊃
7/56	mg/L
0.000.000.000.000.000.000.000.000.000.	0.025
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.05
180-69202-1 180-68419-1 180-68413-1 180-68413-1 180-68413-1 180-70393-1 180-70804-1 180-70804-1 180-67397-1 180-67397-1 180-63972-1 180-63972-1 180-63972-1 180-63972-1 180-4762-1 180-4762-1 180-4762-1 180-4836-1 180-43140-1 180-43140-1 180-43140-1 180-58746-1 180-58746-1 180-58746-1 180-58733-1 180-58155-1 180-58155-1 180-58131-1 180-58131-1 180-58131-1 180-58131-1 180-58131-1 180-58131-1 180-68131-1 180-68131-1 180-68131-1 180-68131-1	180-47762-1
etone et con e e et con e et c	Methylphenol, 3 & 4 Methylphenol, 3 & 4
Brake	Aqueous Brake Cleaner Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Lackawanna Oklahoma City Sacramento St Pauls Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Avon Boise Charlotte Chester Clackamas Sacramento Santa Ana St. Pauls Syracuse Tulsa Archdale Archdale Archdale Archdale Archdale Archdale Santa Ana St. Pauls Syracuse Clackamas Farmington Lackawanna Lackawanna Sacramento Barre Lackawanna Boise Cohoes Los Angeles Chester Tampa Tallahassee Archdale Avon Barre Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Clackamas Lackawanna
45
45
0.000000000000000000000000000000000000
7/64/1/64/1/64/1/64/1/64/1/64/1/64/1/64/
0.025 0.025
0.000 0.000
180-43632-1 180-45019-1 180-49155-1 180-43140-1 180-47808-1 180-5259-1 180-5259-1 180-5259-1 180-5259-1 180-5531-1 180-5531-1 180-5531-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-5549-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68514-1 180-68514-1 180-68514-1 180-68514-1 180-68514-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-6831-1 180-6831-1 180-4338-1 180-4338-1 180-4338-1 180-4338-1
Methylphenol, 3 & 4 Methyl
Aqueous Brake Cleaner

2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2015
Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Avon Boise Chardele Chesapeake Cohoes Lackawanna Boise Cohoes Lackawanna Boise Cohoes	Clackamas
42	
75	
0.000 0.000	0.25
	mg/L
0.025 0.025	0.125
0.05 0.05	0.25
180-45019-1 180-49155-1 180-43140-1 180-47808-1 180-5259-1 180-5259-1 180-5531-1 180-5531-1 180-5531-1 180-58630-1 180-58630-1 180-65699-1 180-65699-1 180-65699-1 180-65699-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65814-1 180-65814-1 180-65837-1 180-65831-1 180-65831-1 180-65831-1 180-65331-1 180-65331-1 180-65331-1 180-65331-1 180-65331-1 180-65331-1	180-47762-1
Nitrobenzene Nitro	Pentachlorophenol
Aqueous Brake Cleaner	Aqueous Brake Cleaner

2015 2015 2015 2015 2015 2015 2015 2015	2016 2017 2016
Lackawanna Oklahoma City Sacramento St Pauls Syracuse Wichita Santa Ana Tulsa Avon Boise Chardele Avon Boise Chardele Avon Boise Chardele Avon Boise Chardele Avon Boise Clackamas Sarramento Santa Ana St. Pauls Syracuse Tulsa Albuquerque Archdale Avon Boise Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Salisbury Santa Ana St Pauls Syracuse Wichita Sacramento Barre Lackawanna Boise Cohoes Los Angeles Tallahassee Wichita Sara Ana Syracuse Cohoes Los Angeles Tallahassee Wichita Sara Ana Syracuse Cohoes Clackamas Clackamas	St. Pauls Sacramento Chester
25	
4 6	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.000
っっっっっ [*] っっっっっっっっっっ [*] っっっっっっ [*] っっっっっっと生生生生生生	生生生
### ##################################	No Units SU No Units
0.125 0.125	7.76
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	7.76 7.8 7.81
180-43632-1 180-43632-1 180-43140-1 180-43140-1 180-43140-1 180-5259-1 180-52531-1 180-52531-1 180-52531-1 180-53469-1 180-53469-1 180-53469-1 180-55631-1 180-5608-1 180-5608-1 180-65608-1 180-65608-1 180-65608-1 180-65698-1 180-65698-1 180-65931-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65911-1 180-65391-1	180-56008-1 180-70453-1 180-54773-1
Pentachlorophenol	동등등
Aqueous Brake Cleaner	Brake Brake Brake

Syracuse 2016 Clackamas 2016 Charlotte 2015 Santa Ana 2017 Lackawanna 2017 Chandler 2016 Los Angeles 2017 Barre 2017 Barre 2017 Chandler 2017 Barre 2017 Avon 2017 Avon 2017 Archdale 2017 Avon 2015 Cohoes 2015 Cohoes 2015 Chandler 2016 St Pauls 2017 Avon 2017 Cohoes 2015 Cohoes 2015 Cohoes 2015 Avon 2017 Avon 2017 Avon 2017 Cohoes 2015 Cohoes 2015 Cohoes 2015 Avon 2017 Avon 2017 Cohoes 2015 Cohoes 2015 Cohoes 2017 Cohoes 2017 Cohoes 2017 Chandler 2016 Avon 2017 Chandler 2016 Avon 2017 Chandler 2016 Chester 2016	e e ce
50.00000000000000000000000000000000000	20.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
No Units Su S	E ± ⊃ ⊃ ⊃ ⊃ ⊃ ⊃ ⊃ ⊃
7.83 7.91 No. 2.91 No	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
ph 180-55123-1 ph 180-58670-1 ph 180-44147-1 ph 180-67800-1 ph 180-67802-1 ph 180-67322-1 ph 180-67322-1 ph 180-65698-1 ph 180-65698-1 ph 180-68602-1 ph 180-68419-1 ph 180-68419-1 ph 180-68419-1 ph 180-68249-1 ph 180-68249-1 ph 180-68249-1 ph 180-6249-1 ph 180-63469-1 ph 180-43833-1 ph 180-68249-1 ph 180-6349-1 ph 180-65699-1 ph 180-65699-1	pH 180-45120-1 Pyridine 180-43158-1 Pyridine 180-43893-1 Pyridine 180-47232-1 Pyridine 180-44147-1 Pyridine 180-47762-1 Pyridine 180-45632-1 Pyridine 180-45155-1 Pyridine 180-49155-1
Brake	Aqueous Brake Cleaner

2015 2015 2015 2015 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	
St Pauls Syracuse Wichita Santa Ana Tulsa Albuquerque Archdale Avon Boise Charlotte Chester Clackamas Sacramento Santa Ana St. Pauls Syracuse Tulsa Albuquerque Archdale Avon Boise Chardlele Avon Boise Chardlele Archdale Archdale Archdale Archdale Archdale Archdale Archdale Archdale Archdale Clackawanna Boise Colackamas Famington Lackawanna Boise Colackamas Syracuse Wichita Sacramento Barre Los Angeles Tampa Los Angeles Tallahassee Chester Tampa Los Angeles Tallahassee Chester Tampa Los Angeles Charlotte Los Angeles Archdale Clackawans Syracuse Charlotte Los Angeles Archdale Clackamas Santa Ana Salisbury Avon Clackamas	
34	
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	
1/5	
0.05 0.05	
180-48174-1 0.1 180-43140-1 0.1 180-43140-1 0.1 180-5259-1 0.1 180-5253-1 0.1 180-55282-1 0.1 180-5253-1 0.1 180-5253-1 0.1 180-5253-1 0.1 180-5269-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-58653-1 0.1 180-52549-1 0.1 180-68810-1 0.1 180-68810-1 0.1 180-68810-1 0.1 180-65991 0.1 180-65991 0.1 180-65991 0.1 180-6591 0.1 180-6591 0.1 180-6591 0.1 180-633-1 0.1 180-633-1 0.1 180-633-1 0.3 180-4371-2 180-4371-2 180-4371-2 180-4371-3 180-4371-3 180-4371-3 180-4371-3 180-6502-1 0.037 180-6502-1 0.038 180-4371-3 180-6502-1 0.038 180-4371-3 180-6502-1 0.038 180-4371-3 180-6502-1 0.049	
Pyridine	
Aqueous Brake Cleaner	

Wichita 2015 Santa Ana 2015 Albuquerque 2016 Charlotte 2016 Sacramento 2016 Santa Ana 2016 Santa Ana 2016 Sarta Ana 2016 Syracuse 2017 Chesapeake 2017 Chandler 2017 Archdale 2017 Archdale 2017 Avon 2017 Avon 2016 Chester 2016 Tulsa 2017 Avon 2016 Chester 2016 Chester 2016 Tulsa 2016 Chester 2016 Tulsa 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Tulsa 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Avon 2016 Avon 2016 Chester 2017 Chester 2016 Chester 2016 Chester 2017	Chesapeake 2015 Clackamas 2015 Cohoes 2015 Lackawanna 2015
35.	
	0.05 0.05 0.05 0.05
	,,,,,,
7/56 7/56 7/56 7/56 7/56 7/56 7/56 7/56	mg/L mg/L mg/L
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.025 0.025 0.025 0.025 0.025
0.14 0.055	0.05 0.05 0.05 0.05
180-47808-1 180-5259-1 180-5863-1 180-58630-1 180-58630-1 180-58155-1 180-58155-1 180-68413-1 180-68705-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-68413-1 180-6337-1 180-65397-1 180-65397-1 180-6599-1 180-65997-1 180-65997-1 180-65991-1 180-6599-1 180-65991-1 180-65991-1 180-65937-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1 180-65991-1	180-4/232-1 180-48626-1 180-47762-1 180-43632-1
Selenium	Silver Silver Silver Silver
Aqueous Brake Cleaner	Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner

	2015
Oklahoma City Sacramento Syracuse Tallahassee Wichitia Tulsa Archdale Boise Chandler Avon Boise Clackamas Los Angeles Sacramento Santa Ana Syracuse Albuquerque Archdale Avon Boise Clackamas Famington Lackawanna Los Angeles Santa Ana St Pauls Syracuse Wichita Sacramento Barre Santa Ana St Pauls Syracuse Wichita Chespeake Clackaman Chester Tulsa Tulsa Tulsa Tulsa Tulsa Avon Barre Boise Chandler	Lackawanna
35	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.2
	⊃
7/56 E E E E E E E E E E E E E E E E E E E	mg/L
0.025 0.025	0.1
0.05 0.05	0.2
180-45019-1 180-43140-1 180-43140-1 180-48827-1 180-4781-1 180-5531-1 180-5531-1 180-55531-1 180-55531-1 180-55630-1 180-58630-1 180-58630-1 180-58630-1 180-58630-1 180-58630-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65814-1 180-6598-1 180-65814-1 180-65814-1 180-65814-1 180-65814-1 180-65814-1 180-65814-1 180-65814-1 180-65917-1 180-4417-1 180-4333-1 180-4333-1 180-44147-1	180-43632-1
Silver	Tetrachloroethene
Aqueous Brake Cleaner	

Suppose Base Chanter Transchiousthere (MC-4720-8) 60.4420-6. 0.1 0.0 0.2 Suppose Days of Applications of Market (MC-4720-8) 0.0		
Tritachloroethere (864-4615-1 0.2 0.1 mg/L U 0.2 0.2 Tritachloroethere (864-4615-1 0.2 0.1 mg/L U 0.2 0.2 0.1 mg/L U 0.2 0.2 0.1 mg/L U 0.2 0.2 0	2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
Tritachlorochene (180-48018-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-48018-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-48185-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-48185-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-48185-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-48187-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-5818-1 0.2 0.1 mg/L U 0.02 Tritachlorochene (180-4818-1 0.02 0.1 mg/L U 0.02 Tritachlorochene (180-4818-1 0.02 0.1 mg/L U 0.0	Oklahoma City Sacramento Syracuse Tallahassee Wichita Santa Ana Avon Boise Charlotte Santa Ana Stracuse Tulsa Archdale Archdale Avon Boise Chandler Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Santa Ana Stracuse Tulsa Archdale Archdale Archdale Archdale Archdale Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Santa Ana Syracuse Tulsa Archdale Archdale Charlotte Charl	Chesapeake Clackamas Clackawanna Los Angeles Raleigh Salisbury Salisbury Salisbury Santa Ana St Pauls Syracuse Wichita Barre Lackawanna St Pauls Tampa Los Angeles Chester Tulsa Avon Barre Boise Charlotte
Tetrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45617-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56329-1 0.2 0.1 mg/L Underachloroethene 180-56370-1 0.2 0.1 mg/L Underachloroethene 180-5637-1 0.2 0.1 mg/	92	
Tetrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45617-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56329-1 0.2 0.1 mg/L Underachloroethene 180-56370-1 0.2 0.1 mg/L Underachloroethene 180-5637-1 0.2 0.1 mg/	38	
Tetrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45619-1 0.2 0.1 mg/L Letrachloroethene 180-45617-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-45627-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56249-1 0.2 0.1 mg/L Underachloroethene 180-56329-1 0.2 0.1 mg/L Underachloroethene 180-56370-1 0.2 0.1 mg/L Underachloroethene 180-5637-1 0.2 0.1 mg/		
Tetrachloroethene 180-45019-1 0.2	000000000000000000000000000000000000000	000000000000000000000000000000000000000
Tetrachloroethene 180-45019-1 0.2		
Tetrachloroethene 180-45019-1 0.2		222222222222222222222222222222222222222
Tetrachloroethene 180-45019-1 0.2 Tetrachloroethene 180-43140-1 0.2 Tetrachloroethene 180-43140-1 0.2 Tetrachloroethene 180-43827-1 0.2 Tetrachloroethene 180-5228-1 0.2 Tetrachloroethene 180-5228-1 0.2 Tetrachloroethene 180-5238-1 0.2 Tetrachloroethene 180-5348-1 0.2 Tetrachloroethene 180-5848-1 0.2 Tetrachloroethene 180-5815-1 0.2 Tetrachloroethene 180-5815-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5809-1 0.2 Tetrachloroethene 180-5809-1 0.2 Tetrachloroethene 180-6899-1 0.2 Tetrachloroethene 180-4373-1 0.2 Tetrachloroethene 180-4373-1 0.2 Tichloroethene 180-4373-1 0.2 Trichloroethene 180-4373-1 0.2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	00/1 00/1
Tetrachloroethene 180-45019-1 0.2 Tetrachloroethene 180-43140-1 0.2 Tetrachloroethene 180-43140-1 0.2 Tetrachloroethene 180-43827-1 0.2 Tetrachloroethene 180-5228-1 0.2 Tetrachloroethene 180-5228-1 0.2 Tetrachloroethene 180-5238-1 0.2 Tetrachloroethene 180-5348-1 0.2 Tetrachloroethene 180-5848-1 0.2 Tetrachloroethene 180-5815-1 0.2 Tetrachloroethene 180-5815-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5813-1 0.2 Tetrachloroethene 180-5809-1 0.2 Tetrachloroethene 180-5809-1 0.2 Tetrachloroethene 180-6899-1 0.2 Tetrachloroethene 180-4373-1 0.2 Tetrachloroethene 180-4373-1 0.2 Tichloroethene 180-4373-1 0.2 Trichloroethene 180-4373-1 0.2		
Tetrachloroethene 180-45019-1 Tetrachloroethene 180-43140-1 Tetrachloroethene 180-43140-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-5232-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-6814-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-433-1 Tichloroethene 180-433-1 Tichloroethene 180-433-1 Tichloroethene 180-435-1	000000000000000000000000000000000000000	10.00 10.00
Tetrachloroethene 180-45019-1 Tetrachloroethene 180-43140-1 Tetrachloroethene 180-43140-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-52259-1 Tetrachloroethene 180-5232-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5863-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-5803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-6803-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-6814-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-683-1 Tetrachloroethene 180-433-1 Tichloroethene 180-433-1 Tichloroethene 180-433-1 Tichloroethene 180-435-1	00000000000000000000000000000000000000	0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03
Tetrachloroethene Trichloroethene		
	180-450 180-431 180-431 180-522 180-522 180-524 180-534 180-547 180-581 180-581 180-581 180-581 180-581 180-653 180-653 180-653	180-686 180-686 180-686 180-670 180-670 180-706 180-706 180-706 180-706 180-44 180-486 180-44 180-486 180-44 180-486 1
	oethene	oethene eethene eethene eethene eethene eethene eethene eethene eethene eethene
	Tetrachlor	Tetrachlor Trichloro
Aqueous Brake Clk Aqueous Brake Clk		
Aqueous	Brake Cic Brake Cic Brake Cic Brake Cic Brake Cic Brake Cic Brake Cic Brake Cic Brake Cic	Brake
	Aqueous	Aqueous

2015 2015 2015 2015 2015 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015 2015
Oklahoma City Sacramento St Pauls Syracuse Tallahassee Wichita Santa Ana Albuquerque Archdale Avon Boise Charlotte Chester Clackamas Los Angeles Sacramento Santa Ana St. Pauls Syracuse Tulsa Albuquerque Archdale Avon Boise Charlotte Chester Chester Chester Chester Chester Chester Chester Charlotte Chester Clackamas Fulsa Albuquerque Archdale Avon Barre Lackawanna Los Angeles Raleigh Salisbury Santa Ana St. Pauls Syracuse Wichita Sacramento Barre Lackawanna Los Angeles Tampa Tulsa Avon Barre Barre Barre Avon Barre Avon Barre	Boise Chandler Charlotte Chesapeake Chester Clackamas Cohoes Lackawanna
99	
38	
	000000000000000000000000000000000000000
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7/5/7/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	1,567 1,067
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	200000000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
180-45019-1 180-49155-1 180-43140-1 180-43140-1 180-48827-1 180-5259-1 180-52531-1 180-55531-1 180-5563-1 180-5563-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-5863-1 180-58699-1 180-58123-1 180-58133-1 180-65699-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1	180-42310-1 180-47232-1 180-44147-1 180-48626-1 180-4371-1 180-43585-1 180-43632-1
Trichloroethene	Vinyl Chloride
Aqueous Brake Cleaner	Brake Brake Brake Brake Brake Brake

2015 2015 2015 2015 2015	2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017
Los Angeles Oklahoma City Sacramento St Pauls Syracuse	Syracuse Tallahassee Wichita Santa Ana Albuquerque Archdale Avon Boise Chandler Charlotte Chester Clackamas Los Angeles Sacramento Santa Ana St. Pauls Syracuse Tampa Tulsa	Albuquerque Archdale Avon Boise Chandler Chesapeake Clackamas Farmington Lackawanna Los Angeles Raleigh Salisbury Santa Ana St Pauls Syracuse Wichita Sacramento Barre Lackawanna Tulsa
		92
		56 50 50 50 50 50 50 50 50 50 50 50 50 50
0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
그 그 된 된 된		-
д да	######################################	1,6 m gg/L 2,7 m gg/L 3,7 m gg/L 3,7 m gg/L
0.0.0.0	00000	200000000000000000000000000000000000000
0 0 0 0 0	000000000000000000000000000000000000000	800000000000000000000000000000000000000
180-46602-1 180-45019-1 180-49155-1 180-48174-1	180-43140-1 180-48827-1 180-47808-1 180-5259-1 180-5531-1 180-52649-1 180-52549-1 180-5863-1 180-5863-1 180-58670-1 180-58630-1 180-58630-1 180-58155-1 180-58149-1 180-58149-1	180-70242-1 180-65699-1 180-65699-1 180-64608-1 180-70328-1 180-69202-1 180-69202-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-65698-1 180-6593-1 180-6733-1 180-6739-1 180-6739-1 180-6739-1 180-6739-1
Vinyl Chloride Vinyl Chloride Vinyl Chloride Vinyl Chloride Vinyl Chloride	Vinyl Chloride	Vinyl chloride
Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner Aqueous Brake Cleaner	Aqueous Brake Cleaner	Aqueous Brake Cleaner

2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2010	2016	2010	2016	2010	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	70.17	2017	2017	2017	2017	2017	2017	2015	2015	2015	2015	2015
Archdale	Barre	Boise	Chandler	Charlotte	Chesapeak	Clackamas	Kaukauna	Oklahoma City	Raleigh	Salt Lake City	St Pauls	Tallahassee	Tulsa	Waukesha	Wichita	Chester	Farmington	Albuquerque	Archdale	Boise	Charlotte	Charlotte	Clockanas	Farmington	Kaukauna	Salt Lake City	St. Pauls	Tampa	Tulsa	Vinton	Waukesha	Albuquerque	Archdale	Solse	Chesaneake	Clackamas	Farmington	Kaukauna	Oklahoma City	Oklahoma City	Raleigh	Sallsbury	Salt Lake City	Tulsa	Vinton	Waukesha	Wichita	Вагге	Archdale	Barre	Boise	Chandler	Chesapeak
																															25																						
TOTAL NOTICE																															33																						
	0.5	0.5) () ()	0.55	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	C.5	0.5	C.O.	C. C		C. C	5.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	C. C.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	O 0	ر د. د			5.0	0.5	0.5	0.5	0.5	0.5	0.5	0 0 0
	n) =	=) =) ⊃	⊃	⊃	⊃	⊃	⊃	D	n	⊃)	⊃	* ⊃ :	* - -	o :)	⊃ :	o :	> =	>	> =	o =	> =) ⊃	⊃	⊃	ח	D	* ⊃	⊃:	> =	o <u>*</u>	, ⊃	∍⊃	⊃)	⊃	*_ :) :	>	> =	> =) <u>⊃</u>	⊃	⊃))	ɔ :) :)
ma/L	ma/L	ma/l	,	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1 /6 H	1/6H	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.75	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
0.5	5.0) C			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ი. ი. ი		C. C	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5			0.5		0.5		0.5	0.5	0.5	0.5 r	ς u		0.0				0.5	0.5	0.5	0.5
180-43160-2	180-48340-2	180-43109-1	180-42429-1	180-44141-2	180-48622-1	180-47758-1	180-43108-1	180-45022-1	180-46333-2	180-43574-2	180-48175-2	180-48819-1	180-44557-1	180-48059-1	180-47807-2	180-51511-1	180-51439-1	180-58781-1	180-54869-2	180-52532-2	180-53497-2	180-58403-1	180-54774-2	180-58664-1	180-5552-1	180-53846-1	180-56005-1	180-58145-1	180-58735-1	180-58265-1	180-56644-1	180-70386-2	180-65691-1	180-68707-1	180-64619-1	180-69195-1	180-68916-1	180-64618-1	180-68459-1	180-69239-1	180-70395-2	180-70840-2	180-65477-1	180-69197-1	100-09419-1	180-689.76-1	180-64794-1	180-60188-1	180-43160-2	180-48340-2	180-43109-1	180-42429-2	180-44141-2 180-48622-1
1 1-Dichloroethene	1 1-Dichloroethene	1 1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1 1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1, I-Dicilioroetherie	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane
Immersion Cleaner (Petroleum)		Immersion Cleaner (Petroleum)	Immersion Cleaner (Perform)	Immersion Cleaner (Petroleum)		Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)		Cleaner	Immersion Cleaner (Petroleum)			Cleaner	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)			Cleaner	Cleaner	Cleaner	Immersion Cleaner (Petroleum)	Cleaner	Cleaner		Immersion Cleaner (Petroleum)	Cleaner	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)												

<i>></i> : >	Farmington Albuquerque Archdale Boise Chandler Charlotte	are e e e e e e e e e e e e e e e e e e
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7/80 7/80 7/80 7/80 7/80 7/80 7/80 7/80	1/6ш 1/6u 1/6u	7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w
	180-51439-1 0.5 180-58781-1 0.5 180-52532-2 0.5 180-53497-2 0.5 180-58403-1 0.5 180-58664-1 0.5 180-58664-1 0.5 180-53964-1 0.5 180-53964-1 0.5 180-53846-1 0.5 180-58145-1 0.5 180-58145-1 0.5	180-58265-1 180-56644-1 180-65691-1 180-65691-1 180-68707-1 180-68195-1 180-69195-1 180-69195-1 180-69195-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-6919-1 180-6916-1 180-68956-1 180-68956-1 180-68956-1 180-68956-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-69195-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1
(Petroleum) (Petroluum) (Petroleum) (Petro	ਦੇ	

2017 2017 2017 2017 2016 2016 2016 2016 2016 2016 2016 2016 2016 2017 2018	2015 2015 2015 2015 2016 2016
St Pauls Kaukauna Chester Barre Oklahoma City Boise Vinton Kaukauna Barre Wichita Charlotte Charlet Boise Salt Lake City St. Pauls Waukesha Wichita Archdale Chardler Charlotte	Waukesha Waukesha Wichita Chester Farmington Boise Chandler
33 62	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 N N N N N N N
7/5c 7/5c 7/5c 7/5c 7/5c 7/5c 7/5c 7/5c	mg/L mg/L mg/L mg/L mg/L
6.6 6.9 7 7.3 7.9 9.9 9.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
6.6 6.9 7 7 7 3 7 7 8 9 9 9 4 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	N N N N N N N
180-69197-1 180-64618-1 180-64618-1 180-61511-1 180-68459-1 180-43109-1 180-43108-1 180-43340-2 180-44141-2 180-44141-2 180-44141-2 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-58141-2 180-69239-1 180-58141-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-4809-2 180-4809-2 180-480333-2 180-48175-2 180-48115-2 180-48819-1	180-4455/-1 180-48059-1 180-47807-2 180-51511-1 180-51439-1 180-52532-2
1,4-Dichlorobenzene 1,4-Di	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol
Immersion Cleaner (Petroleum) Immers	Immersion Cleaner (Petroleum)

2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2016
Charlotte Chester Clackamas Famington Kaukauna St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Chandler Chesapeake Clackamas Farmington Kaukauna Oklahoma City Raleigh St Pauls Tulsa Vinton Waukesha Wichita Barre Archdale Barre Archdale Coklahoma City Salisbury Boise Salt Lake City Oklahoma City Salisbury Boise Chandler Chandler Charlotte Charlotte Charlotte Charke City Albuquerque Archdale Boise Charlotte Charlotte Charlotte Charlotte Charlotte Chester Farmington Boise Chandler Chester Chandler Chester Charlotte Charlotte	Kaukauna St. Pauls Tampa
25	
e e e e e e e e e e e e e e e e e e e	
$\frac{1}{1}$	000
	
	mg/L mg/L mg/L
	X X X
$\frac{6}{6}$	000
23-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	64-1 05-1 45-1
180-58403-1 180-5864-1 180-58352-1 180-58352-1 180-58352-1 180-58145-1 180-58265-1 180-58265-1 180-58265-1 180-689197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1 180-48175-2 180-48175-2 180-48519-1 180-4857-1 180-4857-1 180-58352-1	180-53964-1 180-56005-1 180-58145-1
tenol	nenol nenol
2.4.5-Trichlorophenol	2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol
2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	2,4,6-TI 2,4,6-TI 2,4,6-TI
(Petroleum)	troleum) troleum) troleum)
Cleaner (Petroleum)	aner (Pe aner (Pe aner (Pe
Immersion Cleaner (Petroleum)	mmersion Cleaner (Petroleum) Immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum)
Immersion Immers	Imme Imme

2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Tulsa Vinton Waukesha Albuquerque Archdale Chandler Chandler Chandler Chandler Chandler Chandler Chandler St Pauls Tulsa Vinton Waukesha Wichita Barre Boise Salt Lake City Salisbury Boise Chandler Chandler Chandler Chandler Chandler St Pauls Tulsa Wichita Boise Chandler Ch
52
33
ичичичичичичичичь рр 2844 г. чичичичичичичичичичичичичичичичичичичи
7/56 E E E E E E E E E E E E E E E E E E E
$\frac{6}{10}$
180-58735-1 180-58265-1 180-56644-1 180-56644-1 180-56619-1 180-64619-1 180-64619-1 180-6419-1 180-69195-1 180-58403-1 180-58403-1 180-58265-1 180-58265-1 180-58265-1 180-58265-1 180-58265-1 180-66691-1
2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2,4-Dinitrotoluene
Immersion Cleaner (Petroleum)

2017 2017 2017 2017 2017 2017 2017 2017
Clackamas Farmington Kaukauna Oklahoma City Raleigh St Pauls Tulsa Vinton Waukesha Wichita Barre Archdale Oklahoma City Salisbury Boise Salt Lake City Oklahoma City Salisbury Boise Kaukauna St. Pauls Albuquerque Chesapeake Kaukauna St. Pauls Albuquerque Chesapeake Kaukauna St. Pauls Albuquerque Chesapeake Charder Clackamas St. Pauls Albuquerque Chesapeake Kaukauna St. Pauls Archdale Tampa Vinton Raleigh St Pauls Archdale Tulsa Vinton Barre Chardier Clackamas Tallahassee Tampa Vinton Raleigh St Pauls Archdale Tulsa Vinton Barre Chardier Chester Oklahoma City Chester Oklahoma City Tulsa Salisbury Chester Oklahoma City Tulsa
33
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
180-69195-1 180-68916-1 180-68918-1 180-69239-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-6918-1 180-69494-1 180-6956-1 180-68707-1 180-68707-1 180-68707-1 180-68707-1 180-68707-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-58664-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68916-1 180-68918-1 180-68919-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1 180-69239-1
2,4-Dinitrotoluene 3,4-Dinitrotoluene 3,4-Dinitroto
Immersion Cleaner (Petroleum)

Wichita 2015 Clackamas 2017 Oklahoma City 2017 Parmington 2015 Archdale 2015 Wichita 2017 Chandler 2016 Charlotte 2015 Waukesha 2015 Boise 2015 Boise 2015 Charlotte 2015 Charlotte 2015 Charlotte 2015 Charlotte 2015 Tallahassee 2015 Tulsa 2015 Waukesha 2015 Wichita 2015 Charlotte 2016 Charlotte 2017 Archdale 2017 Archdale 2017 Chardale 2017 Clackamas 2017	<i>≥ ≥</i>
6.000000000000000000000000000000000000	, a a a a a a a a a a a a a a a a a a a
**************************************	1,6m 1,6m
6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
6084888499999999999999999999999999999999	
180-47807-2 180-69195-1 180-68479-1 180-68479-1 180-64794-1 180-64794-1 180-64794-1 180-64794-1 180-64794-1 180-64794-1 180-48059-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4557-1 180-4557-1 180-53964-1 180-53964-1 180-53964-1 180-53964-1 180-53964-1 180-53964-1 180-53964-1 180-5396-1 180-5691-1 180-6691-1 180-6691-1	180-6876-1 180-6816-1 180-69239-1 180-69397-1 180-694197-1 180-69419-1 180-6878-1 180-68459-1 180-68459-1 180-68459-1
Methyl Ethyl Ketone 2-Methylphenol	2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol 2Methylphenol
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

	Archdale 2016 Vinton 2016 Waukesha 2015 Archdale 2015 Boise 2016
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.5 2.5 2.5 2.5 2.5 3.5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/L U mg/L 1 B mg/L 1 B mg/L 1 B
10 20 20 0.048 0.05 0.05 0.05 0.05 0.05 0.13 0.13 0.24 0.25 0.28 0.33 0.48 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	1.25 1.25 0.0049 0.016
20 40 40 0.04 0.097 0.097 0.097 0.03 0.03 0.33 0.35 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.75 0.78 0.7	2.5 2.5 0.0049 0.016 0.016
180-65477-1 180-65477-1 180-53846-1 180-63239-2 180-5239-2 180-5239-2 180-53497-1 180-53497-1 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2-1 180-69197-2 180-69197-2 180-6419-2 180-64618-2 180-64618-2 180-64618-2 180-64618-2 180-64618-2 180-64618-2 180-64619-2 180-64619-2 180-64619-2 180-64619-2 180-68956-2 180-68459-2 180-68459-2 180-68459-2 180-68459-2 180-68419-2	180-54869-1 180-58265-2 180-48059-2 180-43160-1 180-52532-1
2-Methylphenol 2-Methylphenol 2-Methylphenol Arsenic	Arsenic Arsenic Barium Barium Barium
Immersion Cleaner (Petroleum) Immers	Immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum)

	2015 ty 2015 2015 ty 2015 2015
Raleigh Vinton Wichitia Boise Oklahoma City Barre Raleigh Chandler Kaukauna St Pauls St Pauls St Pauls St Pauls St Pauls Tulsa Tulsa Tulsa Tulsa Chandler Clackamas Chandler Clackamas Chandler Clackamas Chandler Clackamas Chandler Waukesha Oklahoma City Farmington Chandler Salt Lake City Waukesha Chester Barre Chester Barre Chester St. Pauls Tulsa Tulsa Kaukauna Charlotte Chester St. Pauls Tampa Archdale Boise Clackamas Archdale Boise Clackamas Archdale Farmington Vinton Salt Lake City Albuquerque Farmington Barre Boise Chandler Chandler Chandler Chandler	Clackamas Oklahoma City Raleigh Salt Lake City Tulsa
33	
4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.5 0.5 0.5 0.5 0.5
	mg/L mg/L mg/L mg/L
0.019 0.019 0.0024 0.0029 0.0032 0.0032 0.0045 0.0045 0.0045 0.0053 0.0055 0.0053 0.0053 0.0053 0.0053 0.0053 0.0055 0.00	0.25 0.25 0.25 0.25 0.25
0.019 0.024 0.029 0.029 0.032 0.032 0.045 0.045 0.053 0.055	0.0 0.0 0.5 0.5 0.5
180-46333-1 180-69772-1 180-69772-1 180-43109-2 180-69239-2 180-42340-1 180-43574-1 180-69197-2 180-43574-1 180-69197-2 180-69195-2 180-69195-2 180-6346-2-2 180-69419-2 180-69419-2 180-69419-2 180-69419-2 180-69419-2 180-5386-1 180-69419-2 180-5386-2 180-5386-2 180-5386-2 180-5386-2 180-5386-2 180-5386-2 180-5386-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-5644-2 180-58403-2 180-5840-2 180-58145-2 180-58145-2 180-58145-2 180-5816-2 180-5822-2 180-583109-1 180-433109-1 180-433109-1 180-433109-1 180-44141-2	180-47758-1 180-45022-1 180-46333-2 180-43574-2 180-44557-1
Barium	Benzene Benzene Benzene Benzene Benzene
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

2015 2015 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Wichita Chester Farmington Archdale Chandler Charlotte Chester Clackamas Tulsa Vinton Raukauna Raleigh St Pauls Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Withita Albuquerque St Pauls St Pauls St Pauls St Pauls St Pauls Charlotte Charlotte Charlotte Charlotte Tallahassee Wichita Albuquerque St Pauls Albuquerque Wichita Albuquerque Vinton
25
83
0.000000000000000000000000000000000000
מרדר ד ^ש רדר דר
7/6m 7/6m 7/6m 7/6m 7/6m 7/6m 7/6m 7/6m
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
180-47807-2 180-51511-1 180-54869-2 180-53497-2 180-53497-2 180-53403-1 180-5346-1 180-5386-1 180-5386-1 180-5386-1 180-5386-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69195-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-6819-1 180-6840-2 180-58781-1 180-6816-2 180-58145-2 180-58145-2 180-58145-2 180-58145-2 180-58145-2 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-58395-1 180-51339-2
Benzene Benzen
Immersion Cleaner (Petroleum)

2015 2016 2017 2017 2017 2017 2018 2017 2017 2017 2017 2017 2017 2017 2017
Tulsa Chester St Pauls Charlotte Kaukauna Raleigh Vinton Chandler Farmington Boise Waukesha Archdale Oklahoma City Oklahoma City Oklahoma City Oklahoma City Charlotte Waukesha Archdale Salisbury Clackamas Charlotte Waukesha St Pauls Chester Archdale Barre Barre Chardale Barre Chardale Raukauna Archdale Raukauna Chester Charlotte Charder Charder Salt Lake City St Pauls Chester Charlotte Charder Charder Salt Lake City St Pauls Chester Charlotte Charder Salt Lake City St Pauls Chester Tallahassee Tulsa Wichita Chester Farmington Albuquerque Archdale Boise Charlotte Chester Farmington Albuquerque Archdale Boise Charlotte
33
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
n 2222 n n 222222222222222222222222222
7/6e e e e e e e e e e e e e e e e e e e
0.049 0.057 0.057 0.057 0.057 0.057 0.058 0.057 0.058 0.057 0.058 0.057 0.058
0.049 0.057 0.0057 0.0074 0.00
180-44557-2 180-64174-1 180-69197-2 180-44141-1 180-44161-1 180-69197-2 180-64619-2 180-64619-2 180-64619-2 180-64619-2 180-6459-2 180-64518-2 180-64518-2 180-6591-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-6591-2 180-6591-2 180-6591-2 180-6591-2 180-6511-2 180-6511-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-6418-2 180-43574-1 180-4457-1 180-457-1 180-51511-1 180-51511-1 180-51439-1 180-54869-2 180-51511-1 180-54869-2 180-54869-2
Cadmium Catinum Cadmium Catinum Cadmium Cadmium Cadmium Cadmium Catinum Cadmium Catinum Catinu
Immersion Cleaner (Petroleum) Immers

2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2015 2015 2015 2015 2017 2017 2017 2017 2017 2017 2017 2017	2 2
Clackamas Farmington Kaukauna Salt Lake City St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Boise Chandler Chesapeake Clackamas Farmington Kaukauna Oklahoma City Oklahoma City Salt Lake City	Salt Lake City St Pauls Tulsa Vinton Waukesha Wichita Barre Clackamas Wichita Tampa Boise Barre Tulsa Farmington Chesapeake Farmington Chester Charlotte Clackamas Boise Barre Tulsa Farmington Chester Chester Chester Charlotte Clackamas Boise Boise Boise Chester Charlotte Clackamas Boise Chester Charlotte Clackamas Boise Charlotte Chardale Archdale Chandler Kaukauna Salisbury Salt Lake City Waukesha Raleigh Chandler Kaukauna Archdale Chandler Kaukauna Archdale Chandler Tallahassee	ramington
33		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		o. O
		ד
7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m	100 mg/r 100	mg/L
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.35
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.55 0.55 0.55 0.05 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03	0.35
	 = = = = = = = = = = = = = = = = = =	
180-58664-1 180-53352-1 180-533846-1 180-533846-1 180-58145-1 180-58735-1 180-56644-1 180-68707-1 180-6819-1 180-68459-1 180-68459-1 180-68459-1 180-68459-1	180-65477-1 180-69197-1 180-69197-1 180-69197-1 180-6956-1 180-64794-1 180-64794-1 180-64794-1 180-47758-1 180-47758-1 180-47807-2 180-483109-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1 180-68911-1	180-56352-1
		0
Carbon Tetrachloride	Carbon retrachloride Carbon tetrachloride Chlorobenzene	Chlorobenzene
Carbon Tetrachloride	Carbon to Carbon	Chlor
(Petroleum)	roleum)	troleum)
Cleaner (Pett Cleaner (Pettt Cleaner (Pettt	Cleaner (Petroleum)	aner (Pe
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	mmersion Cleaner (Petroleum)
Immersion Immers	Immersion Immers	Imme

2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016
Tulsa Chester Clackamas Raleigh Waukesha St Pauls Oklahoma City Vinton Waukesha Barre Wichita Oklahoma City Tulsa Chandler Salt Lake City Boise Albuquerque St. Pauls Kaukauna Archdale Barre Boise Chandler	Chandler Charlotte Chesapeak Clackamas Kaukauna Oklahoma City Raleigh Salt Lake City St Pauls Tallahassee Tulsa Waukesha Wichita Chester Farmington Albuquerque Archdale Boise Charlotte Archdale Boise Chandler Chardler
25	25
83	33
. N N N N N N N N N N N N N N N N N N N	
סכככ ככככ	
1,000 1,	7,6 E E E E E E E E E E E E E E E E E E E
0.35 0.36 0.36 0.42 0.43 0.66 0.66 0.68 0.68 0.68 0.68 0.68 0.68	
0.35 0.36 0.36 0.42 0.42 0.64 0.65 0.66 0.68 0.75 0.75 0.75 0.22 0.22 0.22 0.23 0.24 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
180-69419-1 180-54774-2 180-69195-1 180-69195-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-6919-1 180-6919-1 180-56005-1 180-56005-1 180-5386-2 180-5386-2 180-5386-2 180-53964-1 180-53964-1 180-5396-1 180-5396-1	180-42429-2 180-44141-2 180-45022-1 180-45022-1 180-45022-1 180-45022-1 180-45022-1 180-4557-1 180-48175-2 180-4819-1 180-5111-1 180-51439-1 180-54869-2 180-54869-2 180-54869-2 180-54869-2 180-5846-1 180-5846-1 180-5846-1 180-5846-1 180-5846-1 180-5846-1 180-5846-1 180-5846-1 180-5866-1 180-68735-1 180-68735-1 180-68735-1 180-68735-1
Chlorobenzene	Chloroform
	Immersion Cleaner (Petroleum)

	Waukesna 2017 Oklahoma City 2017 Satt Lake City 2017 Barre 2017 Barre 2017
33 52 99 8	Οωω
U U U U U U U U U U U U U U U U U U U	0.1 0.05 0.05 0.05 0.05
	0.22 mg/L 0.23 mg/L 0.25 mg/L 0.36 mg/L 0.39 mg/L
000000000000000000000000000000000000000	180-68956-2 0.22 180-69239-2 0.23 180-43574-1 0.25 180-65477-2 0.27 180-60188-2 0.36 180-48340-1 0.39
	im) Chromium im) Chromium im) Chromium im) Chromium im) Chromium im) Chromium
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

Kaukauna 2017 Oklahoma City 2015 Tallahassee 2015 Albuquerque 2016 Clackamas 2016 Clackamas 2016 Clackamas 2016 Clackamas 2016 Tampa 2016 Tampa 2016 Tampa 2016 Tampa 2017 Chesapeake 2017 Raleigh 2017 Vinton 2017 St Pauls 2017 St Pauls 2017 St Pauls 2017 Chandler 2017 St Pauls 2017 Chandler 2017 St Pauls 2017 Chandler 2017 Chandler 2017 Chandler 2017 Chandler 2017 Wichita 2017 Chesapeak 2017 Chandler 2017 Chesapeak 2017 Chesapeak 2017 Chandler 2017 Chesapeak 2017 Chandler 2017 Chesapeak 2017 Chesapeak 2017 Chandler 2015 Archdale 2017 Chester 2016 St. Pauls 2017 Chester 2016 St. Pauls 2017 Chester 2016 St. Pauls 2017 Chester 2016 St. Lake City 2015 Tulsa 2015 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015 Tallahassee 2015	a. a.
0.	U 0.13 2
0.61 mg/L 0.92 mg/L 0.98 mg/L 1.5 mg/L 1.5 mg/L 2.8 mg/L 2.8 mg/L 2.00 Degrees F >200 Degrees F >200 Degrees F >200 Degrees F >200 Degrees F 197 Degrees F 165 Degrees F 167 Degrees F 168 Degrees F 169 Degrees F 160 Degrees F 1	144 Degrees F 143 Degrees F 142 Degrees F 141 Degrees F 135 Degrees F 116 Degrees F 0.065 mg/L 1 mg/L
	180-4819-2 180-47758-2 143 180-51439-2 143 180-5644-2 142 180-43108-2 141 180-4310-2 135 180-58781-1 180-58781-1 180-43160-2 2
Chromium Chash Point Flash Point	Flash Point Hexachlorobenzene Hexachlorobenzene
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

	6102
Barre Boise Chandler Charlotte Chesapeak Clackamas Raukauna Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Chester Chandler Charlotte Chandler Salisbury Boise Salt Lake City Oklahoma City Salisbury Boise Salt Lake City Oklahoma City Salt Lake City Oklahoma City Salt Lake City Oklahoma City Salt Lake City Chandler Boise Chandler Chandler Chandler Chandler Chesapeak	Kaukauna
25	
33	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7
	D
7/56	mg/L
	<del>-</del>
0	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N
180-48340-2 180-43109-1 180-44141-2 180-44141-2 180-48622-1 180-47758-1 180-43108-1 180-43574-2 180-4857-1 180-4857-1 180-4857-1 180-5844-1 180-5844-1 180-5844-1 180-5844-1 180-5844-1 180-5844-1 180-5844-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-69195-1 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-6469-2 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-64618-1 180-64619-1 180-64619-1 180-64619-1 180-64619-1 180-64794-1 180-64701-1 180-65477-1 180-65477-1 180-65486-2 180-43109-1	180-43108-1
Hexachlorobenzene Hexachlorobe	Hexachlorobutadiene
Immersion Cleaner (Petroleum) Immers	Immersion Cleaner (Petroleum)

2015 2015 2015 2015 2015 2016 2016 2016 2016	2014 2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2015 2016 2016	2015 2015 2015 2015 2015 2015 2015 2015
Raleigh Satt Lake City St Pauls St Pauls Tallahassee Tulsa Waukesha Wichita Chester Farmington Boise Charlotte Charlotte Chester Clackamas Farmington Kaukauna Kaukauna	St. Pauls Tampa Tulsa Vinton Waukesha Albuquerque Archdale Chesapeake Clackamas Farmington Kaukauna Oklahoma City Raleigh St Pauls	Tulsa Vinton Waukesha Wichita Barre Archdale Oklahoma City Salisbury Boise Salt Lake City Oklahoma City Albuquerque	Archdale Barre Barre Boise Chandler Charlotte Chesapeak Clackamas Kaukauna Raleigh Salt Lake City St Pauls Tallahassee Tulsa Waukesha
	25		
	33		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 2 2 2 2 0 1 0 0 1 4 0 0 0 1 3 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	N N N N N N N N N N N N N N N N N N N
_*	, * > > = * * > > > > > > > > > > > > > >		
7,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2017 2017 2017 2017 2017 2017 2017 2017	John Mayr Mayr Mayr Mayr Mayr Mayr Mayr Mayr
	Ē Ė Ė E E E E E E E E E E E E E	E E E E E E E E E E E E E E E E E E E	888888888888
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	
		00000000	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	, , , , , , , , , , , , , , , , , , ,	2 2 2 2 2 0 1 0 1 0 2 0 2 0 0 4 9 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-46333-2 180-43574-2 180-4819-1 180-4857-1 180-4857-1 180-4807-2 180-51511-1 180-51532-2 180-58403-1 180-58774-2 180-56352-1	180-53964-1 180-56005-1 180-58135-1 180-58265-1 180-5691-1 180-65691-1 180-65691-1 180-69195-1 180-69195-1 180-69239-1 180-69239-1	180-69419-1 180-69772-2 180-68956-1 180-64794-1 180-64794-1 180-5846-2 180-68459-1 180-70840-2 180-68707-1 180-58707-1 180-5871-1 180-53846-1	180-43160-2 180-43309-1 180-42429-2 180-42429-2 180-4821-1-1 180-43108-1 180-4333-2 180-48175-2 180-48175-2 180-48175-1 180-48175-2 180-48059-1
			08 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
utadiene	utadiene	uutadiene uutadiene uutadiene uutadiene uutadiene uutadiene uutadiene uutadiene uutadiene	oethane
Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene	Hexachloroethane
Cleaner (Petroleum)	(Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei (Petrolei	mmersion Cleaner (Petroleum) Immersion Cleaner (Petroleum)	mmersion Cleaner (Petroleum)
Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner	Cleaner	Cleaner	mmersion Cleaner
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion

2015 2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Chester Farmington Boise Chandler Charlotte Charlotte Chester Clackamas Farmington Kaukauna St. Pauls Tulsa Vinton Waukesha Archdale Chesapeake Clackamas Farmington Kaukauna City Raleigh St Pauls Tulsa Vinton Waukesha Wichita Barre Archdale Oklahoma City Raleigh St Pauls Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Wichita Boise Archdale Tulsa Vinton Kaukauna Wichita Boise Archdale Tulsa Vinton Kaukauna Wichita Boise Archdale Tulsa Chandler Farmington Wichita Boise Chandler Tulsa Chandler Tulsa Chandler Tulsa Chandler Tulsa Chandler Tulsa
25
83
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
7/6 mm 1 / 1/6 mm 1 /
20 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.
0.093 0.038 0.038 0.038 0.038 0.038 0.039 0.039 0.039 0.039
180-51511-1 180-51439-1 180-52532-2 180-52497-2 180-58403-1 180-58404-1 180-56352-1 180-56352-1 180-56352-1 180-56364-1 180-58145-1 180-58145-1 180-58145-1 180-58145-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-68316-1 180-68316-1 180-68316-1 180-69197-2 180-68316-1 180-68316-1 180-68316-1 180-68316-1 180-68316-1 180-68707-1 180-69772-1 180-48340-1 180-69772-1 180-69772-1 180-69772-1 180-48340-1 180-51439-2 180-4557-2
Hexachloroethane Hexach
Immersion Cleaner (Petroleum)

2016 2016 2017 2017 2015 2017 2017 2015 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2017 2017
Farmington Tampa Archdale Chester Clackamas Oklahoma City Oklahoma City Oklahoma City Albuquerque Clackamas Raleigh Salt Lake City Archdale Chesapeake Boise Salisbury Vinton Kaukauna St Pauls Kaukauna Chandler Salt Lake City Waukesha Tallahassee Clackamas Chester Oklahoma City Albuquerque Barre Chester Oklahoma City Albuquerque Barre Charlotte St. Pauls Salisbury Waukesha Tallahassee Clackamas Chester Oklahoma City Albuquerque Barre Cackamas Chester Cackamas Chester Oklahoma City Albuquerque Barre Charlotte St. Pauls	Charlotte Chesapeak Clackamas Oklahoma City Raleigh Salt Lake City St Pauls Tallahassee Waukesha Wichita Chester Farmington Archdale Boise Charlotte Chester Clackamas Kaukauna Salt Lake City Tampa Tulsa Vinton Waukesha Archdale Boise Charlotte Chester Clackamas Archdale Boise Charlotte Chester Clackamas Archdale Boise Charlotte Charlotte Chester Clackamas Archdale Boise Chandler
33 52	
0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002
ш ш п п п п п п п п п п п п п п п п п п	
7/50 7/50 7/50 7/50 7/50 7/50 7/50 7/50	7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E
0.83 0.86 0.94 1.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.000000000000000000000000000000000000
0.83 0.86 0.94 1.3 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002
180-56352-2 180-58145-2 180-58145-2 180-5864-2 180-68459-2 180-48502-2 180-4869-1 180-40633-1 180-40633-1 180-40633-1 180-5386-1 180-5386-2 180-5386-2 180-5364-2 180-64175-1 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2	180-44141-1 180-48622-2 180-45022-2 180-45022-2 180-4533-1 180-43574-1 180-48119-2 180-4819-2 180-4819-2 180-4819-2 180-51511-2 180-51439-2 180-54869-1 180-54869-1 180-54774-1 180-5864-2 180-5846-2 180-5846-2 180-5846-2 180-5846-2 180-5846-2 180-5846-2 180-5846-2 180-58735-2 180-58735-2 180-5844-2 180-58644-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2 180-56841-2
Lead Lead Lead Lead Lead Lead Lead Lead	Mercury
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

2017 2017 2017 2017 2017 2015 2015 2015 2016 2016 2016 2016 2017 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017
Farmington Kaukauna Salt Lake City St Pauls Waukesha Wichita Chandler Boise Kaukauna Chandler Clackamas Albuquerque Chesapeake Chandler Barre Tulsa Albuquerque Archdale Barre Barre Barre Raleigh Vinton Raleigh Vinton St Pauls Tulsa Albuquerque Archdale Barre Boise Charlotte Chester Archdale Charlotte Chesapeake Clackamas Farmington Kaukauna Oklahoma Citv	Raleigh
25	
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	7
בכבבבבבר כבבבב בברבבבב בבבבבבר בבבבב בברבבב בברבבב בברבבבבב בברבבבבב בברבבבב בברבבבב בברבבבב בברבבבב בברבבבב ב	⊃
	mg/L
0.001 0.001 0.001 0.001 0.0025 0.0025 0.0025 0.0057 0.0057 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.	7
180-68916-2 180-68916-2 180-6917-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69196-2 180-43109-2 180-43109-2 180-69195-2 180-43109-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-69195-1 180-6919-1 180-6919-1 180-6919-1 180-5835-1 180-58664-1 180-58664-1 180-58664-1 180-58664-1 180-58664-1 180-58664-1 180-58145-1 180-5691-1 180-6691-1 180-6691-1 180-6691-1 180-6691-1	180-70395-2
Mercury Mertylphenol, 3 & 4 Methylphenol,	, ω
Immersion Cleaner (Petroleum) Immers	Immersion Cleaner (Petroleum)

	Raleigh 2017 St Pauls 2017 Tulsa 2017 Vinton 2017 Waukesha 2017 Wichita 2017
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>~~~~~</b>
**************************************	mg/L mg/L mg/L mg/L mg/L
2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	
Methylphenol, 3 & 4 180-69197-1 Methylphenol, 3 & 4 180-69197-1 Methylphenol, 3 & 4 180-69197-1 Methylphenol, 3 & 4 180-6956-1 Methylphenol, 3 & 4 180-6978-1 Mitrobenzene Nitrobenzene Nitrobenz	Nitrobenzene 180-70395-2 Nitrobenzene 180-69197-1 Nitrobenzene 180-69772-2 Nitrobenzene 180-68956-1 Nitrobenzene 180-68956-1
Immersion Cleaner (Petroleum) Met Immersion Cleaner (Petroleum) Immersion Cleaner (Petrole	Immersion Cleaner (Petroleum)

2017 2017 2017 2017 2017 2017 2018 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2010 2010 2010	
Barre Archdale Salisbury Boise Salt Lake City Oklahoma City Salt Lake City Oklahoma City Salt Lake City Oklahoma City Salt Lake City Albuquerque Archdale Barre Boise Chandler Charlotte Chespeak Clackamas Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Chester Farmington Boise Chandler Charlotte Archdale Clackamas Farmington Kaukauna Oklahoma City Raleigh St Pauls	Tutsa Vinton Waukesha Wichita Barre Archdale Oklahoma City Salisbury Boise Salt Lake City Oklahoma City
25	
SS.	
	X
4	10 10 10 100 100 200 200
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w
0 000 000 000 000 000 000 000 000 000	
45558844 C	10 10 10 10 50 50 100 100
888-1 669-2 669-2 7.77-1 7.77-1 7.77-1 7.77-1 600-2 600-2 600-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-2 7.74-1 7.74-2 7.74-2 7.74-1 7.74-2 7.74-1 7.74-2 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7.74-1 7	419-1 772-2 956-1 188-1 188-1 869-2 840-2 707-1 022-1
180-60188-1 180-54869-2 180-68459-1 180-68707-1 180-68707-1 180-53846-1 180-43160-2 180-43160-2 180-43160-2 180-43160-2 180-43160-2 180-43108-1 180-43108-1 180-43108-1 180-43108-1 180-58051-1 180-58051-1 180-58051-1 180-58151-1 180-5816-1 180-5816-1 180-5816-1 180-5816-1 180-5816-1 180-66641-1 180-66619-1 180-68916-1 180-68916-1 180-68916-1	180-69419-1 180-69772-2 180-68956-1 180-64794-1 180-64869-2 180-68459-1 180-68707-1 180-65477-1
and the not provided the notation of the notat	henol henol henol henol henol henol henol
Nitrobenzene Pentachlorophenol	Pentachlorophenol
Cleaner (Petroleum)	(Petroleum)
Cleaner (Cleaner (Cle	Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner Cleaner
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

	<u>v</u> ×
32	
8	100000
> ½ x x ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½	
	mg/L mg/L mg/L mg/L
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2. 2. 2. 2. 2.
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	- c 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-53846-1 180-64618-2 180-6429-1 180-69195-2 180-69195-2 180-69195-2 180-69195-2 180-65691-2 180-65691-2 180-65691-2 180-65691-2 180-68459-2 180-68459-2 180-68459-2 180-68459-2 180-68459-2 180-68916-2 180-68197-2 180-68197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-69197-2 180-6810-2 180-6336-1 180-6336-2 180-6336-2 180-6333-1 180-68707-2 180-68710-2 180-68710-2 180-68710-2 180-68710-2 180-68710-2 180-68710-2 180-68710-2 180-68710-1 180-64714-1 180-44577-1 180-64110-1	180-58781-1 180-43760-2 180-43340-2 180-42429-2 180-48622-1
Pentachlor PA PA P	Pyridine Pyridine Pyridine Pyridine Pyridine Pyridine
Immersion Cleaner (Petroleum) Immers	Immersion Cleaner (Petroleum)

	2017 2017 2017 2016 2016 2017 2016 2017 2017 2017 2017
Clackamas Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Chester Farmington Boise Chandler Chester Clackamas Farmington Kaukauna St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Clackamas Farmington Kaukauna St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Chandler Chesapeake Clackamas Farmington Kaukauna St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Chandler Chesapeake Clackamas Farmington Kaukauna Vinton Waukesha Vinton Waukesha Vinton Waukesha Vinton Waukesha Vinton Salisbury Boise Salt Lake City Chesapeak Salt Lake City Chesapeak	Boise Oklahoma City Tulsa Raleigh Chandler Charlotte Salisbury Chester Vinton Waukesha
25	
× × × × × × × × × × × × × × × × × × ×	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.1 0.25 0.1 0.1 0.1 0.1 0.1
$\begin{smallmatrix} *\\ CC & CC &$	ררככ
7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u	7,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1
£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	
0.0053 0.0053	0.05 0.05 0.072 0.074 0.11 0.15 0.16 0.23
55 50 50 50 50 50 50 50 50 50 50 50 50 5	0.1 0.1 0.072 0.074 0.15 0.15 0.15 0.23
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0.1 0.072 0.074 0.115 0.15 0.15 0.15 0.23
180-47758-1 180-43108-1 180-4333-2 180-48574-2 180-48819-1 180-4857-1 180-4857-1 180-51511-1 180-553964-1 180-58433-1 180-5816-1 180-5816-1 180-5816-1 180-5816-1 180-68916-1 180-68916-1 180-684919-1 180-68916-1 180-68516-1 180-68516-1 180-68516-1 180-68735-1 180-68516-1 180-68735-1 180-68516-1 180-68735-1 180-68735-1 180-68735-1 180-68735-1 180-68735-1 180-68735-1 180-6875-1 180-6875-1 180-6875-1 180-6875-1 180-6875-1 180-6875-1	180-69197-2 180-6919-2 180-59419-2 180-53497-1 180-58403-2 180-54774-1 180-69172-1 180-69197-2
98 1 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Pyridine	Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	(mn)  onu)
Immersion Cleaner (Petroleum)	mmersion Cleaner (Petroleum) immersion Cleaner (Petroleum)
mmersion Cleaner immersion Cleaner	on Cleans
Immersion (Immersion (	Immersion Immersion Immersion Immersion Immersion Immersion Immersion Immersion Immersion

Wichita 2017 Boise 2015 Chester 2015 Boise 2016 Oklahoma City 2015 Kaukauna 2017 Tampa 2016 Clackamas 2017 Chesapeake 2017 Waukesha 2017 Barre 2017	> 2	Farmington 2015 Albuquerque 2017 Farmington 2017 Tallahassee 2015 Chandler 2015 St Pauls 2015 Archdale 2016 Tulsa 2015 Charlotte 2015 Salt Lake City 2015		Kaukauna 2016 Salt Lake City 2015 Boise 2016 Oklahoma City 2017 Boise 2015 Archdale 2015 Chesapeak 2015 Oklahoma City 2015 St Pauls 2015 Tallahassee 2015 Tulsa 2015 Tulsa 2015 Chester 2016 Charlotte 20
	33		ما ما	ው <i>ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው ው </i>
U 88 L L 0.05.0 0.05.0 0.05.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0	J 0.25 0.25 0.25 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.3	0.000000000000000000000000000000000000		20.00000000000000000000000000000000000
0.23 mg/L 0.35 mg/L 0.32 mg/L 0.35 mg/L 0.35 mg/L 0.39 mg/L 0.4 mg/L 0.45 mg/L			0.84 0.84 0.86 0.9 0.9 0.94 0.0052	0.0077 0.0093 0.0011 0.022 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025
180-64794-2 0.23 180-43109-2 0.5 180-51511-2 0.3 180-52532-1 0.32 180-45022-2 0.35 180-6418-2 0.35 180-69195-2 0.34 180-69195-2 0.44 180-60188-2 0.45			- 0. 0. 0 0. 0	180-53964-2     0.0077       180-43574-1     0.0093       180-62532-1     0.011       180-68459-2     0.02       180-68459-2     0.02       180-633846-2     0.024       180-43160-1     0.025       180-48622-2     0.05       180-48175-1     0.05       180-48175-1     0.05       180-4857-2     0.05       180-4857-2     0.05       180-5801-2     0.05       180-58403-2     0.05       180-58664-2     0.05       180-56005-2     0.05       180-56005-2     0.05
eum) Selenium			leum) Selenium Selenium Selenium Selenium Selenium Selenium Ieum) Selenium Selenium Ieum) Selenium Selenium Selenium Selenium Ieum) Selenium Ieum) Silver	
	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

2016 2016 2017 2017 2017 2017 2017 2017 2017	2017 2015 2015 2015 2015 2017 2017 2017 2017 2017 2017	2016 2017 2017 2017 2017 2016 2017 2017 2017 2017 2017 2017 2017	2017 2016 2017 2015 2015 2016 2016 2016 2017 2017 2017 2015 2017 2017 2017 2017 2017 2017 2017 2017
Tampa Tulsa Waukesha Albuquerque Archdale Boise Chesapeake Clackamas Oklahoma City Raleigh Salisbury St Pauls	Vinton Barre Chandler Barre Clackamas Raleigh Farmington Farmington Waukesha Wichita Chandler Wichita	Farmington Vinton Kaukauna Salt Lake City Tulsa Albuquerque Clackamas Farmington Boise Charlotte Salisbury Chesapeak Waukesha St. Pauls	Chesapeake Tampa Barre Salt Lake City Salt Lake City St Pauls Boise Salt Lake City Waukesha Tulsa Archdale Tallahassee Chester Chandler Chester Chester Tulsa Archdale Tallahassee Chester Chester Chandler Chester Chandler Chester
22			
:			
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.05 0.05 0.05 0.1 0.1 0.1 0.1 0.13	0.25 0.25 0.25 0.25 0.25 0.5 0.5 0.5 0.5 0.5	O O O O O O O O O O O O O O O O O O O
	בבכככ בכביככ:	22222	
1967 1967 1967 1967 1967 1967 1967 1967	m gg/L mg/L mg/L mg/L mg/L mg/L mg/L		7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E
0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.025 0.025 0.028 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.125 0.125 0.125 0.125 0.25 1.8 2.8 3.7 10 11 11 11	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.05 0.05 0.028 0.1 0.1 0.05 0.1 0.13 0.25	0.25 0.25 0.25 0.25 1.8 1.8 3.7 10 10	5 4 5 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
180-58145-2 180-58735-2 180-56644-2 180-70386-1 180-65691-2 180-68707-2 180-69195-2 180-69239-2 180-70395-1	180-69772-1 180-60188-2 180-42429-1 180-47758-2 180-47758-2 180-61439-2 180-68916-2 180-68916-2 180-64794-2 180-64619-2 180-64619-2	180-56352-2 180-56352-2 180-64618-2 180-65477-2 180-68781-1 180-58664-1 180-68916-1 180-68916-1 180-58403-1 180-58403-1 180-58955-1 180-68956-1	180-50327-1 180-58145-1 180-60188-1 180-65477-1 180-5232-2 180-52346-1 180-55346-1 180-56644-1 180-5691-1 180-5691-1 180-54774-2 180-54774-2 180-69195-1 180-5352-1
Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver Silver Silver Silver Silver Silver Silver Silver Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene	Tetrachloroethene
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

2015 2015 2017 2015 2015 2016	2017 2015 2017 2015 2015	2015 2015 2015 2015 2017 2017 2017	2015 2016 2017 2017 2017 2016 2016 2016 2016	2017 2017 2017 2017 2017 2015 2015 2016 2015 2015 2015	2013 2014 2015 2015 2016 2015 2015 2016 2016 2016 2016	
Oklahoma City Wichita Kaukauna Farmington Archdale	Oklahoma City Clackamas Raleigh Charlotte Oklahoma City	Boise Chandler Barre Raleigh Tulsa St Pauls Archdale	Waukesna Albuquerque Albuquerque Kaukauna Wichita Chandler Chesapeak Charlotte Clackamas St. Pauls Tampa	Farmington Kaukauna Raleigh Waukesha Chesapeake Boise Boise Barre Salt Lake City Albuquerque Chandler	Sall Lake City Archdale Tulsa Clackamas Vinton Chester Barre Tulsa Wichita Kaukaukanas Boise Waukesha	Raleigh Farmington Archdale Tulsa Oklahoma City Kaukauna
25						52
33						83
0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5 0.5
			2222	~~~~~		
mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	7,6m 7,6m 7,6m 7,6m 7,6m 7,6m 7,6m 7,6m	7/62 7/62 7/62 7/62 8 8 8 7 7/62 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	// / / / / / / / / / / / / / / / / / /	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	49 52 53 53	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	61 69 71 110 120 0.25 0.25 0.25	0.25 0.25 0.25 0.37 0.85 1.2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
4 4 4 4 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	50 52 53 53	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	61 771 110 120 0.5 0.5 0.5	0.55 0.55 0.37 0.37 0.85 1.2	r; r; r; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0;	1 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4
180-45022-1 180-47807-2 180-64618-1 180-51439-1 180-54869-2	180-69239-1 180-47758-1 180-70395-2 180-44141-2 180-68459-1	180-43109-1 180-429-2 180-48340-2 180-4557-1 180-69197-1 180-69772-2	180-48059-1 180-58781-1 180-70386-2 180-43108-1 180-64794-1 180-48622-1 180-58403-1 180-58064-1	180-68916-1 180-68916-1 180-64618-1 180-68956-1 180-70327-1 180-43109-1 180-43340-2 180-53846-1 180-53846-1	180-43574-2 180-65691-1 180-69419-1 180-47758-1 180-54774-2 180-60188-1 180-44557-1 180-53964-1 180-69195-1 180-52532-2	180-50044-1 180-46333-2 180-54869-2 180-58735-1 180-68459-1 180-43108-1
Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene	Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene	Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene	Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)			Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

2015 2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2017 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017
Waukesha Vinton St Pauls Charlotte Chandler Salisbury St Pauls St Pauls St Pauls Chandler Chandler Chandler Chandler Tallahassee Chandler Archdale Barre Boise Chardale Raukauna Oklahoma City Archdale Boise Chardale Boise Chardale Boise Chardale Boise Chardale Chester Tallahassee Tulsa Wichita Chardale Boise Chandler Chardale Boise Chandler Chardale Boise Chandler Chardale Boise Chardale Boise Chandler Chardale Boise Chandler Chardale Boise Chardale Boise Chardale Boise Chandler Chardale Boise Chandler Chardale Boise Chandler Chardale Boise Chandler Clackamas Farmington Kaukauna Salt Lake City St. Pauls Tulsa Vinton Waukesha Albuquerque Archdale Boise Chandler Chandler Chandler Chandler Chandler	Farmington Kaukauna Oklahoma City
25	
33	
000000000000000000000000000000000000000	0.2
	222
7/6 E E E E E E E E E E E E E E E E E E E	mg/L mg/L
2.2.8 3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	2.2.2
$ \begin{smallmatrix} 4 & 6 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8$	2.9.2
$\begin{smallmatrix} & & & & & & & & & & & & & & & & & & &$	0 0 0 0
180-48059-1 180-69772-2 180-69772-2 180-69197-1 180-44141-2 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-4819-1 180-51511-1 180-51511-1 180-51511-1 180-51511-1 180-5352-1 180-5352-1 180-58403-1 180-58403-1 180-58403-1 180-58403-1 180-58401-1 180-58145-1 180-58145-1 180-68019-1	180-68916-1 180-68918-1 180-68459-1
180-48059-1 180-69772-2 180-69197-1 180-69197-1 180-69197-1 180-69197-1 180-4141-2 180-65477-1 180-65471-1 180-45109-1 180-45109-1 180-45109-1 180-45109-1 180-45109-1 180-45109-1 180-45109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-513109-1 180-6605-1 180-6605-1 180-6605-1	180-68916- 180-684618- 180-68459-
oroethene	oride oride oride
Trichloroethene Trichloroethenene Trichloroethenenene Trichlor	Vinyl chloride Vinyl chloride Vinyl chloride
eeum)  ee	eum) eum) eum)
Cleaner (Petroleum)	ner (Petroleum) ner (Petroleum) ner (Petroleum)
Immersion Cleaner (Petroleum)	immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum) Immersion Cleaner (Petroleum)
Immersion Immers	Immer

2017 2017 2017 2017 2017 2017 2017 2017	2
Oklahoma City Raleigh Salisbury Salt Lake City Salt Lake City Tulsa Vinton Waukesha Wichita	ָם פֿ
000000000000000000000000000000000000000	N.
	o
1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	
0000000000	-
000000000000000000000000000000000000000	7.7
180-69239-1 180-70395-2 180-70840-2 180-65477-1 180-69197-1 180-6919-1 180-68956-1 180-68956-1	
Vinyl chloride	Vinyl chloride
Immersion Cleaner (Petroleum)	Immersion Cleaner (Petroleum)

	PARAMETER	LAB_SAMPLE_ID RESULT	RESULT	UNITS	QUALIFIER REPORTING LIMIT
7	1,4-Dichlorobenzene Average	ge	10.7692		
	2-Methylphenol Average		13.8		
	Arsenic Average		0.40149		
	Barium Average		0.55287		
	Benzene Average		1.24647		
	Cadmium Average		5,77548		
	Chlorobenzene Average		0.67615		
	Chromium Average		0.26987		
	Flash Point Average		152.634		
	Lead Average		7,4335		
	Mercury Average		0.00397		
_	Methyl Ethyl Ketone Average	əb	197.636		
	Methylphenol, 3 & 4 Average	de	1553.48		
	pH Average		10.2086		
	Selenium Average		0.49726		
	Silver Average		0.01907		
	Tetrachloroethene Average	9	44,7365		
	Trichloroethene Average		3,34279		
	Grand Average		40.3924		

YEAR	2013	2015	2016	2016	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2010	2016	2016	2017	2017	2017	2017	2017	2017	2013	2013	2013	2014	2015	2016	2016	2017	2014	2013	2013	2015
	g	Wichita	<u>و</u>	>		Boise			g	_			≥	<u></u>				¥	Wichita	Bismarck	Lexington	Omaha	Sacramento	Salt Lake City	Salt Lake City	Tallahassee	Wichita	Boise	Kaukauna	Omana	lamba	Wichita	Bismarck	esion of the second	Grand Island	Omaha	Salt Lake City	Wichita	Wichita	Wichita	Dodge City	Omaha	Grand Island	Archdale	Wichita	Wichita	Wichita	Sacramento	Santa Ana	Wichita
Uth VALUE COUNT																															31 49																			
	2	2	2	2	25	25	25	25	25	25	25	25	25	25	25	25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.23	2.63	. ע	٠. c	. u		5.0	2.0	0.5	: <del>-</del>	50	0.2	2
REPOR	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.	0	0.	0.	0.	0.0	0.0	0.0	0.	0	0	0	0	0.	0	0	o c	o d	,	o c	o c	o c	.; c				o c	0 C		C	,	S.	0	0
UNITS QUALIFIER	mg/L U	ma/L U	ma/L U	ma/L U	mg/L U	mg/L U`	mg/L U	mg/L O	mg/L 0	mg/L 0	g/L     0	וויפאר ממיין	mg/L 0	mg/L O	וווש/ר ממ/ו	mg/L	ma/l	ma/L U	mg/L U	mg/L U	mg/L U																													
KED DATA	0.1	0.1		0.1	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.70	0.23	0.23	0.23	0.23	0.25	0.25	0.5	25	0.1	0.1
RESULT RAN	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.20	C 4	C. G		C. C		. c	0.0	€ ←	50	0.2	0.2
LAB ID	180-25784-1	180-47806-1	180-58610-1	180-53847-1	180-21042-1	180-20979-1	180-24465-1	180-18801-1	180-22095-1	180-20206-1	180-24284-1	180-25502-1	180-20709-1	180-35828-1	180-36820-1	180-33747-1	180-35964-1	180-32302-1	180-35936-1	180-47865-1	180-42378-1	180-47630-1	180-49237-1	180-43570-1	180-45918-1	180-48823-1	180-42328-1	180-52531-1	180-54031-1	180-57963-1	180-58144-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-66575-1	180-69236-1	100-00020-1	180-64785-1	180-186/2-1	180-22924-1	100-30004-1	180-30212-1	190-44030-1	190-34903-1	180-53133-1	180-30657-1	180-25502-1	180-25784-1	180-47806-1
PARAMETER	1,1-Dichloroethene	1.1-Dichloroethene	1 1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dicnioroethene	1,1-Dichloroethene	I, I-Dichloroethene	1,1-Dichloroethene	I, I-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichlorothono	1, I-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethane																								
MATRIX	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	E E	BEE	BUK	Bulk	PWS Bulk Tank	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	PWS Bulk Tank			PWS Bulk Tank	PWS Bulk Tank	Bulk	Bulk	Buk Buk	Bulk	Bulk		Bulk Bulk	BUK :		BUK 1	BUIK	PWS Bulk Tank		PWS Bulk Tank																	

Sacramento 2016 Salt Lake City 2016 Bismarck 2013 Boise 2013 Dodge City 2013 Dodge City 2013 Grand Island 2013 Lexington 2013 Omaha 2013		
		£6
0.2 0.2 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.
7/5u 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3/7 1/3	7,5 2,7 2,0 3,7 3,7 3,7 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0	
0.1 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.
0.2 0.2 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
180-58610-1 180-53847-1 180-21042-1 180-20979-1 180-2095-1 180-20206-1 180-24284-1	180-25502-1 180-2502-1 180-35828-1 180-35820-1 180-32302-1 180-42378-1 180-42378-1 180-42378-1 180-49237-1 180-49237-1 180-45918-1 180-45918-1 180-45370-1 180-45918-1	180-54031-1 180-57963-1 180-58144-1 180-68951-1 180-67589-1 180-67589-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-5364-1 180-5364-1 180-5364-1 180-5364-1 180-53135-1 180-68921-1 180-68921-1 180-68921-1 180-68921-1 180-5562-1
1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene
PWS Bulk Tank		

m m =	n ~	. ~	<b>+</b>	₹+	<del>-</del>	-	<del></del>	ıc	ıc	ıc	ıc	ıo	ור י	ים.	Ω.	· 0	:O 1	:O :	(C)	ഗ	7	7	2	7	7	_	7	ი ი		m r	γ) <b>τ</b>	4 տ	ი "	o "	) N	- «	) 4	· ‹	) 4	- ო	ינכ	. c	· (*)	) M	) m	) M	3	3	
2013				2014			2014	2015	2015	2015					2015	2016	2016	2016	2016	2016	2017			2017			2017	2013	2013	2013		2014		2010	2010	2013	2012							2013					
Boise Dodge City	Sacramento	Salt Lake City	Dodge City	Fargo	Sacramento	Salt Lake City	Wichita	Bismarck	Lexington	Omaha	Sacramento	Salt Lake City	Salt Lake City	Tallahassee	Wichita	Boise	Kaukauna	Omaha	Tampa	Wichita	Bismarck	Boise	Grand Island	Lexington	Omaha	Salt Lake City	Wichita	Bismarck	Omaha	Wichita	Wichita	Dodge City	Grand Island Archdolo	Archdale	Wichita	avington	Omaha	Grand Island	Wichita	Sacramento	Wichita (	Salt Lake City	Bismarck	Boise	Dodge City	Dodge City	Grand Island	Omaha	
																							49																										
														9									31								E								8										
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.5	O. O.	C.O	C. O	0.5 35	0.23	0.5 7.0	6.60	- 05	30.0	0.05	5.5			0.1	0.1	0.1	
<b>&gt; &gt; :</b>	<b>&gt;</b> =	) ⊃	)	⊃	⊃	⊃	)	⊃	⊃	⊃	⊃	J	⊃	<b>)</b>	<b>)</b>	<b>-</b>	⊃	⊃	⊃	⊃	コ	コ	D	D	D	⊃	)	¬ ·	: ٦	⊃:	⊃ :	<b>)</b> :	<b>)</b> :	o :	o :	D	-	ס	=	o =	> =	o =	> =	o =	: :	o =	) ) )	Þ	
mg/L mg/L	mg/L	_mg/L	mg/L	mg/L "	mg/L	mg/L	mg/L	mg/L mg/l	mg/L mg/l	mg/L mg/l	mg/L mg/l	mg/L		mg/L	1,6W	mg/L	7) 1,042	mg/L	ma/L	mg/L																													
0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.18	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.20	0.28	0.43	7.4.0	0.5 25	200	0.025	0.020	0.03	0.03	0.05	0.05	0.05	
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.18	0.21	0.5	0.5	0.5	0.5	0.5	0.5 r	C.0	0.28	0.43	7.7	- 6	2 0	0.00	5 5		. c	. c		0.1	
180-20979-1 180-24465-1	180-18801-1	180-20302-1	180-35828-1	180-36820-1	180-35964-1	180-32302-1	180-35936-1	180-47865-1	180-42378-1	180-47630-1	180-49237-1	180-43570-1	180-45918-1	180-48823-1	180-42328-1	180-52531-1	180-54031-1	180-57963-1	180-58144-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-66575-1	180-69236-1	180-65526-1	180-64795-1	180-21042-1	180-24284-1	180-18872-1	180-22924-1	180-30864-1	180-44036-1	180-54965-1	180-53135-1	180-68921-1	180-20206-1	180-36212-1	180-22095-1	180-30637-1	1-200-2000-1	180-47806-1	100-0001	180-21042-1	100-20373-1	180-24463-1	180-22095-1	180-24284-1	
1,4-Dichlorobenzene 1,4-Dichlorobenzene	1,4-Dichlorobenzene	1.4-Dichlorobenzene	1.4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dicilionoperizerie	2,4,5-Trichlorophenoi	Z,4,5-IIICIIIOIOPIIEIIOI	Z,4,5-I richlorophenol	Z,4,5-1 richiorophenol	2,4,5-Trichlorophenol	2,4,3-1,1CHIOLOPHERIO	2,4,5-Trichlorophenol																														
Bulk Bulk		PWS Bulk Tank	嚴	Bulk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank		Bulk	PWS Bulk Tank	Bulk		PWS Bulk Tank	Bulk	Bulk	Bulk	Bulk	PWS Bulk Tank	Bulk	Bek	Bulk	PWS Bulk Tank	PWS Bulk Tank	Bulk	PWS Bulk Tank	Bulk	Bulk	Bulk	BE!	Buk	踞	Bulk Bulk	Bulk	BCK	Bulk	Bulk	2 E		Ball to	PWS Bulk Lank		뿔							

Wichita 2013 Dodge City 2014 Dodge City 2014 Fargo 2014 Omaha 2014 Wichita 2014 Bismarck 2015 Grand Island 2015 Lexington 2015 Omaha 2015	Sacramento Salt Lake City Salt Lake City Tallahassee Wichita Archdale Boise Kaukauna Omaha Tampa	Wichita 2016 Wichita 2016 Bismarck 2017 Boise 2017 Grand Island 2017 Lexington 2017 Omaha 2017 Salt Lake City 2017 Wichita 2017 Sacramento 2017	_ >	7
0.13 0.13 0.13 0.13 0.13 0.13	0.13 0.13 0.13 0.13 0.13 0.13	0.13 0.13 0.13 0.13 0.13 0.13 0.13	- 0.13 0.13 0.05 0.05 0.05	0.0 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L ng/L ng/L ng/L ng/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
1 0.05 13 0.065 13 0.065 13 0.065 13 0.065 13 0.065 13 0.065 13 0.065		0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065		0.1 0.1 0.1 0.1 0.1 0.1 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065
180-22924-1 0.1 180-30864-1 0.13 180-35828-1 0.13 180-36820-1 0.13 180-35936-1 0.13 180-47865-1 0.13 180-42378-1 0.13		180-53135-1 0. 180-59184-1 0. 180-68951-1 0. 180-67589-1 0. 180-66575-1 0. 180-69236-1 0. 180-6526-1 0. 180-68921-1 0.		180-24465-1 0 180-18801-1 0 180-22095-1 0 180-22924-1 0 180-30864-1 0 180-36820-1 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-1 0 0 180-36212-
2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol
PWS Bulk Tank	BUK	PWS Bulk Tank		PWS Bulk Tank

Sacramento 2014 Salt Lake City 2014 Wichita 2014 Bismarck 2015 Grand Island 2015 Lexington 2015 Omaha 2015 Sacramento 2015 Satt Lake City 2015 Salt Lake City 2015 Tallahassee 2015	٠ ١ ١ ١		-	Grand Island 2014 Omaha 2014 Sacramento 2014 Salt Lake City 2014 Wichita 2014 Bismarck 2015 Grand Island 2015 Lexington 2015 Omaha 2015 Sacramento 2015 Salt Lake City 2015
	59			
0.000000000000000000000000000000000000	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 6.13 6.13 6.13 6.05 6.05 6.05	0.05 0.1 0.1 0.1 0.13	0.13 0.13 0.13 0.13 0.13 0.13 0.13
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*
7,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m	7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,	7/5/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7	mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L
0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.5 0.5	0.025 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065
0.000000000000000000000000000000000000	2	21.0 21.0 21.0 21.0 20.0 20.0	0.05 0.1 0.1 0.1 0.13 0.13	61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0
180-35964-1 180-32302-1 180-47865-1 180-44036-1 180-42378-1 180-49237-1 180-49237-1 180-49237-1 180-49237-1	180-52531-1 180-54965-1 180-52531-1 180-57963-1 180-53135-1 180-59184-1 180-68951-1	180-70325-1 180-66575-1 180-65526-1 180-64795-1 180-20206-1 180-30657-1 180-58610-1	180-53847-1 180-20979-1 180-24465-1 180-18801-1 180-22095-1 180-18872-1 180-22924-1 180-36820-1	180-33747-1 180-36212-1 180-32302-1 180-35936-1 180-47865-1 180-44036-1 180-42378-1 180-49237-1
2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	2,4-Dinitrotoluene
		PWS Bulk Tank	PWS Bulk Tank	Buk Buk Buk Buk Buk Buk

Tallahassee 2015 Archdale 2016 Boise 2016 Kaukauna 2016 Omaha 2016 Tampa 2016 Wichita 2016 Bismarck 2017 Boise 2017	Grand Island 2017 Lexington Omaha 2017 Omaha 2017 Wichita 2017 Wichita 2015 Bismarck 2013 Wichita 2015 Bismarck 2013 Wichita 2015 Wichita 2015 Wichita 2015 Wichita 2015 Bismarck 2013 Wichita 2013 Wichita 2013 Dodge City 2013 Boise 2013 Dodge City 2013 Wichita 2013 Wichita 2013 Wichita 2013 Wichita 2014 Dodge City 2014 Dodge City 2014 Dodge City 2014 Crand Island 2014 Omaha 2015 Eargon Grand Island 2015 Lexington 2015 Lexington 2015 Salt Lake City 2015 Crand Island 2015 Lexington 2015 Salt Lake City 2015
59	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00000000000000000000000000000000000
, , , , , ,	
mg/L mg/L mg/L mg/L mg/L	
0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.055 0.022 0.32 0.32 0.32 0.025 0.025 0.05 0.05 0.05 0.05 0.05 0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00
180-48823-1 180-54965-1 180-52531-1 180-54031-1 180-57963-1 180-59184-1 180-68951-1	180-70325-1 180-66575-1 180-68526-1 180-68921-1 180-68921-1 180-30864-1 180-21328-1 180-21328-1 180-20206-1 180-2328-1 180-20206-1 180-20206-1 180-20379-1 180-20379-1 180-20379-1 180-20379-1 180-22924-1 180-22924-1 180-22924-1 180-35828-1 180-35828-1 180-35828-1 180-35828-1 180-35828-1 180-35828-1 180-35828-1 180-35936-1 180-35936-1 180-35936-1 180-35936-1 180-44036-1 180-45918-1
2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene	2,4-Dinitrotoluene 2,4-Dinitroto
PWS Bulk Tank	

2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2014	2016	2013	2016	2014	2016	20.15	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016
Archdale	Boise	Kaukauna	Omaha	Tampa	Wichita	Wichita	Bismarck	Boise	<b>Grand Island</b>	Lexington	Omaha	Salt Lake City	Wichita	Wichita	Wichita	Sacramento	Santa Ana	Salt Lake City	Wichita	Sacramento	Wichita	Bismarck	Bolse	Dodge City	Dodge City	Grand Island	Lexington	Omaha	Sacramento	Sall Lake City	Wichita	Dodge City	Dodge City	Fardo	Grand Island	Omaha	Sacramento	Salt Lake City	Wichita	Bismarck	Grand Island	Lexington	Omaha	Sacramento	Salt Lake City	Salt Lake City	Tallahassee	Wichita	Archdale	Boise
46																																														48				
30																																														31				
	-		- ~		_	· <del></del>	τ-	_	_	_	_	<b>—</b>	_	_	1.9	3,3	0.05	0.5	0.1	0.1	0.5	← ·				← 、	<del>-</del> -	<del>-</del> - τ	- 1		- •				- 4-	· <del>-</del>	_	<b>~</b>	~	_	_	τ-	_	_	_	18	-	_	_	~
n n		) =	) <u>=</u>	o =	) ⊃	) ⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	ņ	7	⊃	<b>)</b>	<b>-</b>	<b>)</b>	<b>)</b> :	<b>&gt;</b> :	<b>)</b>	⊃ :	<b>)</b> :	<b>)</b> :	⊃ :	<b>)</b>	) )	o =	o =	o =	> =	) =	) ⊃	D	⊃	⊃	⊃	Þ	_	J	ם	D	) D	⊃	⊃	D
ma/L	l/bm	]/bm	1/bm	1/gm	1 /bШ	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	1/gm 1/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0.5	0.5		) c	ט כ ט ג	0.50	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.95	1.65	0.0054	0.042	0.05	0.05	0.25	0.5	0.5	0.5		0.5		0.5	0.5	0.5	0.5 r	رن د ت	o c			0 0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	-						_	_	_	_	_	<del></del>	_	_	1.9	3.3	0.0054	0.042	0.1	0.1	0.5	_	_	<del></del>	_	←	_	<del>-</del>	_	ς,	<del>,</del> ,	<del></del>		- +				· <del>-</del>	<del></del>	_	<del>-</del>	· <del>-</del>	<b>.</b>	<b>—</b>	_		_	_	. —	<del>-</del>
180-54965-1	180-52531-1	180-52031-1	100-04031-1	180 58144 1	180-53135-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-66575-1	180-69236-1	180-65526-1	180-64795-1	180-68921-1	180-30657-1	180-58610-1	180-25784-1	180-53847-1	180-30657-1	180-58610-1	180-47806-1	180-21042-1	180-20979-1	180-24465-1	180-18801-1	180-22095-1	180-20206-1	180-24284-1	180-25502-1	180-20709-1	180-18872-1	180-22924-1	180-30864-1	180-33828-1	100-30020-1	180-33747-1	180-35964-1	180-32302-1	180-35936-1	180-47865-1	180-44036-1	180-42378-1	180-47630-1	180-49237-1	180-43570-1	180-45918-1	180-48823-1	180-42328-1	180-54965-1	180-52531-1
2-Methylphenol	2-Methylphonol			2-Metnyiphenoi	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	2-Methylphenol	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Alsenic	Arsonio	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic
PINIS Built Tank				PWS Bulk Lank	DWS Built Tank			BE	BUK	Bulk	Bulk	BUK	Bulk	Bulk	Bulk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank		PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank		Buk					DWS Bulk Tank				E E							PWS Bulk Tank			

Kaukauna 2016  Omaha 2016  Vichita 2016  Wichita 2016  Wichita 2017  Boise 2017  Crand Island 2017  Lexington 2017  Wichita 2013  Omaha 2013  Omaha 2015  Fargo 2014  Omaha 2015  Vichita 2013  Wichita 2015  Lexington 2015  Lexington 2015  Vichita 2013  Salt Lake City 2015  Lexington 2015  Lexington 2015  Salt Lake City 2015  Aukichita 2015  Wichita 2015  Wichita 2015  Wichita 2015  Wichita 2015  Wichita 2017  Salt Lake City 2013  Wichita 2015  Wichita 2013  Wichita 2013  Wichita 2013  Wichita 2013  Wichita 2013  Wichita 2013  Sacramento 2013  Wichita 2017  Sacramento 2013  Wichita 2017  Sacramento 2013  Wichita 2017  Sacramento 2013  Wichita 2017  Sacramento 2013	et ^ ij
33	
	20 2 5 70
	7 D 7 7
7/5/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	mg/L mg/L mg/L
0.5 0.5 0.5 0.5 0.5 0.5 0.3 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.5 1.5 1.5 1.5
0.00 0.32 0.32 0.33 0.53 0.53 0.53 0.53 0.53 0.53 0.53	0.81 1.1 1.2
180-54031-1 180-57963-1 180-58144-1 180-58144-1 180-59184-1 180-68951-1 180-68951-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-70325-1 180-6526-1 180-70325-1 180-6526-1 180-6526-1 180-6526-1 180-64795-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1 180-6526-1	180-68921-1 180-58610-1 180-68951-1 180-65526-1
Arsenic Barium	Barium Barium Barium Barium
	PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank

| 2013         | 2015                                             | 2015                                                                                                        | 2014                                                                                                                                                                                                                                                                                                                                                                                  | 2015                                                                                                                                                                                                                                                                                                                                                                                                    | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                               | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2017                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2013                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grand Island | Bismarck                                         | Grand Island                                                                                                | Grand Island                                                                                                                                                                                                                                                                                                                                                                          | Tallahassee                                                                                                                                                                                                                                                                                                                                                                                             | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Archdale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Santa Ana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sacramento                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Omaha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lexington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bismarck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lexington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                               | Tallahassee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bismarck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Omaha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Omaha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Omaha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dodge City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Omaha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lexington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Dodge City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Grand Island                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Grand Island                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wichita<br>Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kaukanna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dodge City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Archdale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bismarck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Boise                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Grand Island                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Salt Lake City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Boise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Dodge City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VVICHITA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Faro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sacramento                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Boise                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wichita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 49                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 31                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2 1          | 20                                               | 20                                                                                                          | 20                                                                                                                                                                                                                                                                                                                                                                                    | 20                                                                                                                                                                                                                                                                                                                                                                                                      | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                               | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.25                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| . —          | )<br>]<br>]                                      | JB                                                                                                          | ⊃                                                                                                                                                                                                                                                                                                                                                                                     | ⊃                                                                                                                                                                                                                                                                                                                                                                                                       | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                               | <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | )<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ⊃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ! =          | , <del>/</del>                                   | ٦/                                                                                                          | ٦/                                                                                                                                                                                                                                                                                                                                                                                    | /F                                                                                                                                                                                                                                                                                                                                                                                                      | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | /<br>/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ٦                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ٦,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | /L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | /۲                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                               | <b>/</b> L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ٦/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>//</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>/</b> /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | )/F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1/F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ١/٢                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1/F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | /ر                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ٦, :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /ل                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>,</u> ',                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | J/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | J/L                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1/r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1/r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | J/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>1</b> /L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | J/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | )/L<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/L<br>-''                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ٦/,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>,</u>                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1/56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| . E          | » E                                              | , E                                                                                                         | ůω                                                                                                                                                                                                                                                                                                                                                                                    | ш                                                                                                                                                                                                                                                                                                                                                                                                       | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ЭШ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ЭШ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ę                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                               | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ů                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ËÈ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ĚĚ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ËË                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ë                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ш́                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ŭ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ĔŘ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ĔÈ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ž ž                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ËË                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | É                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0.0          | 2.2                                              | 2.7                                                                                                         | 10                                                                                                                                                                                                                                                                                                                                                                                    | 10                                                                                                                                                                                                                                                                                                                                                                                                      | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                               | 0.125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>-</b> !                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ر<br>ن بر                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 <                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ۱۲                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              | 2.2                                              | 2.7                                                                                                         | 20                                                                                                                                                                                                                                                                                                                                                                                    | 20                                                                                                                                                                                                                                                                                                                                                                                                      | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                               | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | . 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _ '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>υ</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | . ~                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 180-22095-1  | 47865-1                                          | 44036-1                                                                                                     | 33747-1                                                                                                                                                                                                                                                                                                                                                                               | 48823-1                                                                                                                                                                                                                                                                                                                                                                                                 | 59184-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54965-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 25784-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47806-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 58610-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53847-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47630-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20206-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47865-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 42378-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                               | 48823-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 68951-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36212-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53135-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -68921-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .24284-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -57963-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -30864-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -69236-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -66575-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -18801-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -70325-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -33747-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -20709-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -18872-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -30657-1<br>6470F 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54031-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -65526-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35828-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -54965-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -21042-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -67589-1                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -32302-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -44036-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -45918-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -43570-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -52531-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -24465-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -59184-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1-06027-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -35820-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -20979-1                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 700 7000 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 180-         | 180                                              | 180-                                                                                                        | 180-                                                                                                                                                                                                                                                                                                                                                                                  | 180                                                                                                                                                                                                                                                                                                                                                                                                     | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                               | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 28.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 180                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | o)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                               | ø.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ø.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ø.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | æ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Φ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ф                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ф                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>o</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Φ (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ov co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | D O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ט ע                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | υ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | o o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ø                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ф                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Φ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ð                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ф                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ψ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | oo o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | D O                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ) (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Railin       | Barium                                           | Barium                                                                                                      | Barium                                                                                                                                                                                                                                                                                                                                                                                | Barinm                                                                                                                                                                                                                                                                                                                                                                                                  | Barium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Barium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                               | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bonzon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Renzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Benzen                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bonzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Renzen                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Bulk Tank    | K Tank                                           | < Tank                                                                                                      | k Tank                                                                                                                                                                                                                                                                                                                                                                                | k Tank                                                                                                                                                                                                                                                                                                                                                                                                  | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                               | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | K Lank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | r Tallh<br>V Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | k Tank                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | k Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | k lank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K lank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | k Tank                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I Tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              |                                                  |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                       | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                               | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | INS SM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WS bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PWS Bul                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PWS Bul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PWS Bull                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PWS Bul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PWS Bul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PWS Bul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | INS SMC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PWS Bull                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | , NO DUIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | Barilla 180-22095-1 22 22 may IR 20 Grand Island | Bulk Tank Barium 180-22095-1 2.2 2.2 mg/L JB 20 Grand Island Blismarck Barium 180-47865-1 2.2 2.2 mg/L J 20 | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         mg/L         J B         20         Grand Island | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-33747-1         20         10         mg/L         U         20         Grand Island | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-33747-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Tallahassee | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-33747-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Tallahassee           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Wichita | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-33747-1         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Vichita           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Vichita           Bulk Tank         Barium         180-54965-1         14         14         mg/L         J         20         Archdale | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-8823-1         2.7         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Wichita           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Archdale           Bulk Tank         Barium         180-59184-1         20         0.1         mg/L         U         0.2         Archdale | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-33747-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Nichita           Bulk Tank         Barium         180-59184-1         20         10         0         20         Archdale           Bulk Tank         Benzene         180-25784-1         0.2         0.1         mg/L         U         0.2         Santa Ana           Bulk Tank         Benzene         180-47806-1         0.1         mg/L         U         0.2         Nichita | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-48823-1         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Michita           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Michita           Bulk Tank         Berizene         180-59865-1         14         14         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-2784-1         0.2         0.1         mg/L         U         0.2         Wichita           Bulk Tank         Benzene         180-47806-1         0.2         0.1         mg/L         U         0.2         Wichita           Bulk Tank         Benzene         180-58610-1         0.2         0.1         0.2         Sacramento | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bismarck Bismarck Bismarck           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         JB         20         Grand Island Bismarck Grand Island Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Vichita           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Vichita           Bulk Tank         Benzene         180-55784-1         0.2         0.1         mg/L         U         0.2         Vichita           Bulk Tank         Benzene         180-47806-1         0.2         0.1         mg/L         U         0.2         Vichita           Bulk Tank         Benzene         180-58610-1         0.2         0.1         mg/L         U         0.2         Sacramento           Bulk Tank         Benzene         180-5847-1         0.2         0.1         mg/L         U         0.2         Satt Lake City | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-48823-1         2.0         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Wichita           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Wichita           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         U         0.2         Wichita           Bulk Tank         Benzene         180-7865-1         1.4         1.4         mg/L         U         0.2         Wichita           Bulk Tank         Benzene         180-78610-1         0.2         0.1         mg/L         U         0.2         Wichita           Bulk Tank         Benzene         180-58610-1         0.2         0.1         mg/L         U         0.2         Satt Lake | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J B         20         Bismarck           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Tallahassee           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Archdale           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-5810-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-58347-1         0.2         0.1         mg/L         U         0.2         Satt Lake City           Bulk Tank         Benzene         180-7630-1         0.12         0.1         0.2         0.2         Onahata | Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J         20         Bismarck           Bulk Tank         Barium         180-44036-1         2.7         mg/L         J         20         Grand Island           Bulk Tank         Barium         180-8823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-8823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-58184-1         20         10         20         Archdale           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L       
 U         0.2         Wichita           Bulk Tank         Benzene         180-47806-1         0.2         0.1         mg/L         U         0.2         Sacramento           Bulk Tank         Benzene         180-47806-1         0.2         0.1         mg/L         U         0.2         Sacramento           Bulk Tank         Benzene | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.7         2.7         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U D         20         Grand Island           Bulk Tank         Barium         180-5986-1         14         14         mg/L         U D         20         Michita           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         U D         0.2         Michita           Bulk Tank         Benzene         180-58610-1         0.2         0.1         mg/L         U D         0.2         Salt Ana           Bulk Tank         Benzene         180-58610-1         0.2         0.1         mg/L         U D         0.2         Salt Lake City           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         D         0 | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.7         2.7         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         20         Grand Island           Bulk Tank         Benzene         180-5784-1         20         10         0.2         Michita           Bulk Tank         Benzene         180-4780-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         0.2         0.2         0.2         0.2         0.2         0.2         0.2         0.2 | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J         20         Bismarck           Bulk Tank         Barium         180-44036-1         2.7         2.7         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-59184-1         20         10         mg/L         U         20         Michita           Bulk Tank         Benzene         180-59184-1         20         0.1         mg/L         U         20         Michita           Bulk Tank         Benzene         180-5818-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-5881-1         0.2         0.1         mg/L         U         0.2         Dmaha           Bulk Tank         Benzene         180-7884-1         0.2         0.1         mg/L         U         0.2         Dmaha | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         J B         20         Bismarck           Bulk Tank         Barium         180-48823-1         2.7         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-58184-1         20         10         mg/L         U         20         Michita           Bulk Tank         Barium         180-58184-1         20         10         mg/L         U         20         Archdale           Bulk Tank         Benzene         180-5818-1         14         14         mg/L         U         20         Archdale           Bulk Tank         Benzene         180-5810-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-58810-1         0.2         0.1         mg/L         U         0.2         Michita           Bulk Tank         Benzene         180-5887-1         0.1         mg/L         U         0.2         D         Archdale <td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-4885-1         2.7         1.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4882-1         20         1.0         mg/L         J         20         Grand Island           Bulk Tank         Barium         180-5918-1         20         1.0         mg/L         J         20         Grand Island           Bulk Tank         Barizene         180-5818-1         20         1.0         0.0         20         Grand Island           Bulk Tank         Benzene         180-5881-1         0.2         0.1         mg/L         J         0.2         Michita           Bulk Tank         Benzene         180-5881-1         0.2         0.1         mg/L         J         0.2         Barramento           Bulk Tank         Benzene         180-4378-1         0.2         0.1         mg/L         J         0.2         Barramento<td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.7         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-20206-1         0.12         mg/L         U         <t< td=""><td>Bulk Tank         Bantum         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.7         mg/L         JB         20         Grand Island Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-59184-1         20         10         mg/L         JB         20         Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         20         0.1         mg/L         JB         20         Grand Island Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         JB         20         Grand Arna Gran</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Blanderk Blanderk</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-42095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4805-1         2.0         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5805-1         20         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5806-1         20         10         0         20         Grand Island           Bulk Tank         Berzene         180-5806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Sartamento           Bulk Tank         Berzene         180-4786-1         0.2         0.1         0.2         0.2         Sartamento</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-42085-1         2.2         2.2         mg/L         JB         2.0         Grand Island Grand Island         Bulk Tank         Barium         180-44036-1        
2.2         2.2         mg/L         JB         2.0         Grand Island         Brimm         180-44036-1         2.0         10         mg/L         U         2.0         Grand Island         Grand Island         Grand Island         Grand Island         Bulk Tank         Barium         180-5498-1         14         14         mg/L         U         2.0         Grand Island         Archdale         Archdale         Archdal</td><td>Bulk Tank         Banium         180-2099-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-2099-1         2.2         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4038-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4308-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         2.0         Grand Island           Bulk Tank         Benzene         180-5814-1         0.2         0.1         mg/L         J         0.2         Archdale           Bulk Tank         Benzene         180-4780-1         0.2         0.1         mg/L         J         0.2         Sacramento           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         0.2         Archdale           Bulk Tan</td><td>Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-42085-1         2.7         2.7         2.7         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-4808-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Built Tank         Banizan         180-5846-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Built Tank         Benzane         180-5878-1         0.2         0.1         mg/L         J B         2.0         Grand Archale           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         0</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5486-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Sant Lake City           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         0.2         <t< td=""><td>Bulk Tank         Barium         180-22036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-42036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-4786-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-4387-1         2.0         1.0         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Bulk Tank         Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         1.0         2.0</td><td>Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Gland Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.0         10         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-5818-1         20         10         mg/L         J B         20         Grand Island Gland Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5817-1         0.2         0.1         mg/L         J D         20         Grand Island Gland Bulk Tank         Barrane         180-5847-1         0.2         0.1         mg/L         J D         0.2         Mrichial Bulk Tank         Bulk Tank</td><td>Built Tank         Barium         180-22056-1         2.2         2.2         mg/L         JB         20         Grand Island Gland Bland B</td><td>Bulk Tank         Bantum         180-2096-1         2.2         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4738-1         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4938-1         2.7         7.7         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-48823-1         20         10         0.0         20         Grand sland           Bulk Tank         Bantum         180-5984-1         20         10         0.0         20         Michia           Bulk Tank         Benzene         180-5881-1         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.2         0.2         Michia           Bulk Tank         Benzene         180-4882-1         0.2         0.1         0.2         0.2         0.0         0.2           Bulk Tank         Benzene         180-4882-1         0.2         0.1</td><td>Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-24086-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         MWchita         MWchita         MWchita         MWchita         Bulk Tank         Berzene         180-25784-1         0.2         0.1         mg/L         JB         0.2         Grand Island Bulk Tank         Berzene         180-2786-1         0.2         0.1         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         Berzene         180-22784-1         0.2         0.1         MWchita</td><td>Bellit Tank         Bartum         180-22026-5         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-42066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-44066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-4686-1         1.0         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2681-1         4.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2878-1         0.2         0.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-24861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-4788-1         0.2         0.1         mg/L         J D         0.2         Grand
Island</td><td>Bilk Tank         Bindum         180-2005-1         2.2         2.2         mg/L         JB         2.0         Grand Island           Bilk Tank         Bardum         180-47865-1         2.2         2.2         mg/L         JB         2.0         Branch           Bulk Tank         Bardum         180-47865-1         2.2         2.7         mg/L         JB         2.0         Grand Island           Bulk Tank         Bardum         180-4878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartum         180-5878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartzene         180-5878-1         0.2         0.1         mg/L         J         2.0         Grand Island           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5882-1         0.2         0.1         0.2         0.2         Sac</td><td>Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island Band           Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Barium         1804/20561         2.7         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         2.0         10         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/76541         0.2         0.1         mg/L         J         0.2         Santa Ana           Built Tank         Berrzene         1804/76541         0.2         0.1         0.2         0.2         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         0.2         0.2         Omenia           Built Tank</td><td>Bulk Tank         Bentum         180-2206-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band Band           Bulk Tank         Bantum         180-44086-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band           Bulk Tank         Bantum         180-44086-1         2.0         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentum         180-5486-1         2         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-5486-1         2         0.1         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L<!--</td--><td>Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank</td><td>Bailtin         Fall Santim         160-2006-5         2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1</td><td>Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis</td><td>Bilk Tank         Bilantman         <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L        
J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<></td></td></t<></td></t<></td></td> | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-47865-1         2.2         2.2         mg/L         JB         20         Bismarck           Bulk Tank         Barium         180-4885-1         2.7         1.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4882-1         20         1.0         mg/L         J         20         Grand Island           Bulk Tank         Barium         180-5918-1         20         1.0         mg/L         J         20         Grand Island           Bulk Tank         Barizene         180-5818-1         20         1.0         0.0         20         Grand Island           Bulk Tank         Benzene         180-5881-1         0.2         0.1         mg/L         J         0.2         Michita           Bulk Tank         Benzene         180-5881-1         0.2         0.1         mg/L         J         0.2         Barramento           Bulk Tank         Benzene         180-4378-1         0.2         0.1         mg/L         J         0.2         Barramento <td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.7         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-20206-1         0.12         mg/L         U         <t< td=""><td>Bulk Tank         Bantum         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.7         mg/L         JB         20         Grand Island Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-59184-1         20         10         mg/L         JB         20         Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         20         0.1         mg/L         JB         20         Grand Island Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         JB         20         Grand Arna Gran</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Blanderk Blanderk</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-42095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4805-1         2.0         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5805-1         20         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5806-1         20         10         0         20         Grand Island           Bulk Tank         Berzene         180-5806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Sartamento           Bulk Tank         Berzene         180-4786-1         0.2         0.1         0.2         0.2         Sartamento</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-42085-1         2.2         2.2         mg/L         JB         2.0         Grand Island Grand Island         Bulk Tank         Barium         180-44036-1         2.2         2.2         mg/L         JB         2.0         Grand Island         Brimm         180-44036-1         2.0         10         mg/L         U         2.0         Grand Island         Grand Island         Grand Island         Grand Island         Bulk Tank         Barium         180-5498-1         14         14         mg/L         U         2.0         Grand Island         Archdale         Archdale         Archdal</td><td>Bulk Tank         Banium         180-2099-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-2099-1         2.2         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4038-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4308-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         2.0         Grand Island           Bulk Tank         Benzene         180-5814-1         0.2         0.1         mg/L         J         0.2         Archdale           Bulk Tank         Benzene         180-4780-1         0.2         0.1         mg/L         J         0.2         Sacramento           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         0.2         Archdale           Bulk Tan</td><td>Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-42085-1         2.7         2.7         2.7         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-4808-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Built Tank         Banizan         180-5846-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Built Tank         Benzane         180-5878-1         0.2         0.1         mg/L         J B         2.0         Grand Archale           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2       
 Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         0</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5486-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Sant Lake City           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         0.2         <t< td=""><td>Bulk Tank         Barium         180-22036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-42036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-4786-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-4387-1         2.0         1.0         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Bulk Tank         Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         1.0         2.0</td><td>Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Gland Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.0         10         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-5818-1         20         10         mg/L         J B         20         Grand Island Gland Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5817-1         0.2         0.1         mg/L         J D         20         Grand Island Gland Bulk Tank         Barrane         180-5847-1         0.2         0.1         mg/L         J D         0.2         Mrichial Bulk Tank         Bulk Tank</td><td>Built Tank         Barium         180-22056-1         2.2         2.2         mg/L         JB         20         Grand Island Gland Bland B</td><td>Bulk Tank         Bantum         180-2096-1         2.2         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4738-1         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4938-1         2.7         7.7         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-48823-1         20         10         0.0         20         Grand sland           Bulk Tank         Bantum         180-5984-1         20         10         0.0         20         Michia           Bulk Tank         Benzene         180-5881-1         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.2         0.2         Michia           Bulk Tank         Benzene         180-4882-1         0.2         0.1         0.2         0.2         0.0         0.2           Bulk Tank         Benzene         180-4882-1         0.2         0.1</td><td>Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-24086-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         MWchita         MWchita         MWchita         MWchita         Bulk Tank         Berzene         180-25784-1         0.2         0.1         mg/L         JB         0.2         Grand Island Bulk Tank         Berzene         180-2786-1         0.2         0.1         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         Berzene         180-22784-1         0.2         0.1         MWchita</td><td>Bellit Tank         Bartum         180-22026-5         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-42066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-44066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-4686-1         1.0         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2681-1         4.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2878-1         0.2         0.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-24861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-4788-1         0.2         0.1         mg/L         J D         0.2         Grand Island</td><td>Bilk Tank         Bindum         180-2005-1         2.2         2.2         mg/L         JB         2.0         Grand Island           Bilk Tank         Bardum         180-47865-1         2.2         2.2         mg/L         JB         2.0         Branch           Bulk Tank         Bardum         180-47865-1         2.2         2.7         mg/L         JB         2.0         Grand Island           Bulk Tank         Bardum         180-4878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartum         180-5878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartzene         180-5878-1         0.2         0.1         mg/L         J         2.0         Grand Island           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5882-1         0.2         0.1         0.2         0.2         Sac</td><td>Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island Band           Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Barium         1804/20561         2.7         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         2.0         10         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/76541         0.2         0.1         mg/L         J         0.2         Santa Ana           Built Tank         Berrzene         1804/76541         0.2         0.1         0.2         0.2         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         0.2         0.2         Omenia           Built Tank</td><td>Bulk Tank         Bentum         180-2206-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band Band           Bulk Tank         Bantum         180-44086-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band           Bulk Tank         Bantum        
180-44086-1         2.0         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentum         180-5486-1         2         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-5486-1         2         0.1         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L<!--</td--><td>Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank</td><td>Bailtin         Fall Santim         160-2006-5         2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1</td><td>Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis</td><td>Bilk Tank         Bilantman         <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<></td></td></t<></td></t<></td> | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-44086-1         2.7         2.7         2.7         mg/L         JB         20      
  Grand Island           Bulk Tank         Barium         180-48823-1         20         10         mg/L         U         20         Grand Island           Bulk Tank         Barium         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         14         14         mg/L         U         20         Grand Island           Bulk Tank         Benzene         180-5496-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         U         0.2         Sarta Archandla           Bulk Tank         Benzene         180-20206-1         0.12         mg/L         U <t< td=""><td>Bulk Tank         Bantum         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.7         mg/L         JB         20         Grand Island Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-59184-1         20         10         mg/L         JB         20         Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         20         0.1         mg/L         JB         20         Grand Island Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         JB         20         Grand Arna Gran</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Blanderk Blanderk</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-42095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4805-1         2.0         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5805-1         20         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5806-1         20         10         0         20         Grand Island           Bulk Tank         Berzene         180-5806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Sartamento           Bulk Tank         Berzene         180-4786-1         0.2         0.1         0.2         0.2         Sartamento</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-42085-1         2.2         2.2         mg/L         JB         2.0         Grand Island Grand Island         Bulk Tank         Barium         180-44036-1         2.2         2.2         mg/L         JB         2.0         Grand Island         Brimm         180-44036-1         2.0         10         mg/L         U         2.0         Grand Island         Grand Island         Grand Island         Grand Island         Bulk Tank         Barium         180-5498-1         14         14         mg/L         U         2.0         Grand Island         Archdale         Archdale         Archdal</td><td>Bulk Tank         Banium         180-2099-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-2099-1         2.2         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4038-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4308-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         2.0         Grand Island           Bulk Tank         Benzene         180-5814-1         0.2         0.1         mg/L         J         0.2         Archdale           Bulk Tank         Benzene         180-4780-1         0.2         0.1         mg/L         J         0.2         Sacramento           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         0.2         Archdale           Bulk Tan</td><td>Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-42085-1         2.7         2.7         2.7         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-4808-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Built Tank         Banizan         180-5846-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Built Tank         Benzane         180-5878-1         0.2         0.1         mg/L         J B         2.0         Grand Archale           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         0</td><td>Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5486-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Sant Lake City           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         0.2         <t< td=""><td>Bulk Tank         Barium         180-22036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-42036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-4786-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-4387-1         2.0         1.0         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Bulk Tank         Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         1.0         2.0</td><td>Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Gland Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.0         10         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-5818-1         20         10         mg/L         J B         20         Grand Island Gland Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5817-1         0.2         0.1         mg/L         J D         20         Grand Island Gland Bulk Tank         Barrane         180-5847-1         0.2         0.1         mg/L         J D         0.2         Mrichial Bulk Tank         Bulk Tank</td><td>Built Tank         Barium         180-22056-1         2.2         2.2         mg/L         JB         20         Grand Island Gland Bland B</td><td>Bulk Tank         Bantum         180-2096-1         2.2         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4738-1         2.2         mg/L         JB         20         Grand sland          
Bulk Tank         Bantum         180-4938-1         2.7         7.7         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-48823-1         20         10         0.0         20         Grand sland           Bulk Tank         Bantum         180-5984-1         20         10         0.0         20         Michia           Bulk Tank         Benzene         180-5881-1         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.2         0.2         Michia           Bulk Tank         Benzene         180-4882-1         0.2         0.1         0.2         0.2         0.0         0.2           Bulk Tank         Benzene         180-4882-1         0.2         0.1</td><td>Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-24086-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         MWchita         MWchita         MWchita         MWchita         Bulk Tank         Berzene         180-25784-1         0.2         0.1         mg/L         JB         0.2         Grand Island Bulk Tank         Berzene         180-2786-1         0.2         0.1         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         Berzene         180-22784-1         0.2         0.1         MWchita</td><td>Bellit Tank         Bartum         180-22026-5         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-42066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-44066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-4686-1         1.0         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2681-1         4.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2878-1         0.2         0.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-24861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-4788-1         0.2         0.1         mg/L         J D         0.2         Grand Island</td><td>Bilk Tank         Bindum         180-2005-1         2.2         2.2         mg/L         JB         2.0         Grand Island           Bilk Tank         Bardum         180-47865-1         2.2         2.2         mg/L         JB         2.0         Branch           Bulk Tank         Bardum         180-47865-1         2.2         2.7         mg/L         JB         2.0         Grand Island           Bulk Tank         Bardum         180-4878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartum         180-5878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartzene         180-5878-1         0.2         0.1         mg/L         J         2.0         Grand Island           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5882-1         0.2         0.1         0.2         0.2         Sac</td><td>Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island Band           Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Barium         1804/20561         2.7         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         2.0         10         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/76541         0.2         0.1         mg/L         J         0.2         Santa Ana           Built Tank         Berrzene         1804/76541         0.2         0.1         0.2         0.2         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         0.2         0.2         Omenia           Built Tank</td><td>Bulk Tank         Bentum         180-2206-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band Band           Bulk Tank         Bantum         180-44086-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band           Bulk Tank         Bantum         180-44086-1         2.0         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentum         180-5486-1         2         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-5486-1         2         0.1         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L<!--</td--><td>Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank</td><td>Bailtin         Fall Santim         160-2006-5         2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1</td><td>Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis</td><td>Bilk Tank         Bilantman         <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784
1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<></td></td></t<></td></t<> | Bulk Tank         Bantum         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         20         Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-44036-1         2.7         mg/L         JB         20         Grand Island Grand Island Bismarck Bulk Tank           Bulk Tank         Bantum         180-59184-1         20         10         mg/L         JB         20         Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         20         0.1         mg/L         JB         20         Grand Island Grand Island Grand Island Grand Island Bulk Tank           Bulk Tank         Benzene         180-5784-1         0.2         0.1         mg/L         JB         20         Grand Arna Gran | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island Blanderk | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-42095-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-4805-1         2.0         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5805-1         20         10         mg/L         JB         20         Grand Island           Bulk Tank         Barium         180-5806-1         20         10         0         20         Grand Island           Bulk Tank         Berzene         180-5806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Ornaha           Bulk Tank         Berzene         180-7806-1         0.2         0.1         mg/L         U         0.2         Sartamento           Bulk Tank         Berzene         180-4786-1         0.2         0.1         0.2         0.2         Sartamento | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-42085-1         2.2         2.2         mg/L         JB         2.0         Grand Island Grand Island         Bulk Tank         Barium         180-44036-1         2.2         2.2         mg/L         JB         2.0         Grand Island         Brimm         180-44036-1         2.0         10         mg/L         U         2.0         Grand Island         Grand Island         Grand Island         Grand Island         Bulk Tank         Barium         180-5498-1         14         14         mg/L         U         2.0         Grand Island         Archdale         Archdale         Archdal | Bulk Tank         Banium         180-2099-1         2.2         2.2         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-2099-1         2.2         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4038-1         2.7         2.7         mg/L         JB         20         Grand Island           Bulk Tank         Banium         180-4308-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         mg/L         J         20         Grand Island           Bulk Tank         Banium         180-5818-1         2.0         10         2.0         Grand Island           Bulk Tank         Benzene         180-5814-1         0.2         0.1         mg/L         J         0.2         Archdale           Bulk Tank         Benzene         180-4780-1         0.2         0.1         mg/L         J         0.2         Sacramento           Bulk Tank         Benzene         180-4780-1         0.2         0.1         0.2         0.2         Archdale           Bulk Tan | Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0        
Grand Island           Built Tank         Banium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-42085-1         2.7         2.7         2.7         mg/L         J B         2.0         Grand Island           Built Tank         Banium         180-4808-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Built Tank         Banizan         180-5846-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Built Tank         Benzane         180-5878-1         0.2         0.1         mg/L         J B         2.0         Grand Archale           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         mg/L         J B         0.2         Santand           Built Tank         Benzane         180-4786-1         0.2         0.1         0 | Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-22095-1         2.2         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Barium         180-33747-1         2.0         1.0         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5486-1         1.4         1.4         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         2.0         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Sant Lake City           Bulk Tank         Benzene         180-5384-1         0.2         0.1         mg/L         J B         0.2         Grand Island           Bulk Tank         Benzene         180-5384-1         0.2         0.1         0.2 <t< td=""><td>Bulk Tank         Barium         180-22036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-42036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-4786-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-4387-1         2.0         1.0         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Bulk Tank         Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         1.0         2.0</td><td>Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Gland Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.0         10         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-5818-1         20         10         mg/L         J B         20         Grand Island Gland Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5817-1         0.2         0.1         mg/L         J D         20         Grand Island Gland Bulk Tank         Barrane         180-5847-1         0.2         0.1         mg/L         J D         0.2         Mrichial Bulk Tank         Bulk Tank</td><td>Built Tank         Barium         180-22056-1         2.2         2.2         mg/L         JB         20         Grand Island Gland Bland B</td><td>Bulk Tank         Bantum         180-2096-1         2.2         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4738-1         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4938-1         2.7         7.7         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-48823-1         20         10         0.0         20         Grand sland           Bulk Tank         Bantum         180-5984-1         20         10         0.0         20         Michia           Bulk Tank         Benzene         180-5881-1         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.2         0.2         Michia           Bulk Tank         Benzene         180-4882-1         0.2         0.1         0.2         0.2         0.0         0.2           Bulk Tank         Benzene         180-4882-1         0.2         0.1</td><td>Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-24086-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         MWchita         MWchita         MWchita         MWchita         Bulk Tank         Berzene         180-25784-1         0.2         0.1         mg/L         JB         0.2         Grand Island Bulk Tank         Berzene         180-2786-1         0.2         0.1         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         Berzene         180-22784-1         0.2         0.1         MWchita</td><td>Bellit Tank         Bartum         180-22026-5         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-42066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-44066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-4686-1         1.0         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2681-1         4.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2878-1         0.2         0.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-24861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-4788-1         0.2         0.1         mg/L         J D         0.2         Grand Island</td><td>Bilk Tank         Bindum         180-2005-1         2.2         2.2         mg/L         JB         2.0         Grand Island           Bilk Tank         Bardum         180-47865-1         2.2         2.2         mg/L         JB         2.0         Branch           Bulk Tank         Bardum         180-47865-1         2.2         2.7         mg/L         JB         2.0         Grand Island           Bulk Tank         Bardum         180-4878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartum         180-5878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartzene         180-5878-1         0.2         0.1         mg/L         J         2.0         Grand Island           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5882-1         0.2         0.1         0.2         0.2         Sac</td><td>Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island Band           Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Barium         1804/20561         2.7         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         2.0         10         mg/L         J         2.0         Gand Island           Built Tank        
Barium         1804/20541         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/76541         0.2         0.1         mg/L         J         0.2         Santa Ana           Built Tank         Berrzene         1804/76541         0.2         0.1         0.2         0.2         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         0.2         0.2         Omenia           Built Tank</td><td>Bulk Tank         Bentum         180-2206-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band Band           Bulk Tank         Bantum         180-44086-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band           Bulk Tank         Bantum         180-44086-1         2.0         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentum         180-5486-1         2         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-5486-1         2         0.1         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L<!--</td--><td>Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank</td><td>Bailtin         Fall Santim         160-2006-5         2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1</td><td>Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis</td><td>Bilk Tank         Bilantman         <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island  
        Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<></td></td></t<> | Bulk Tank         Barium         180-22036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-42036-1         2.2         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Bulk Tank         Barium         180-4786-1         2.2         2.2         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Barium         180-4387-1         2.0         1.0         mg/L         JB         2.0         Grand Island Gland Bulk Tank         Bulk Tank         Bulk Tank         Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-4867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         Benzane         180-47867-1         2.0         1.0         2.0         Grand Island Gland Bulk Tank         1.0         2.0 | Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Gland Bulk Tank         Barlum         180-22095-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.2         2.2         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-43088-1         2.0         10         mg/L         J B         20         Grand Island Bulk Tank         Barlum         180-5818-1         20         10         mg/L         J B         20         Grand Island Gland Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5818-1         20         Grand Island Bulk Tank         Barrane         180-5817-1         0.2         0.1         mg/L         J D         20         Grand Island Gland Bulk Tank         Barrane         180-5847-1         0.2         0.1         mg/L         J D         0.2         Mrichial Bulk Tank         Bulk Tank | Built Tank         Barium         180-22056-1         2.2         2.2         mg/L         JB         20         Grand Island Gland Bland B | Bulk Tank         Bantum         180-2096-1         2.2         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4738-1         2.2         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-4938-1         2.7         7.7         mg/L         JB         20         Grand sland           Bulk Tank         Bantum         180-48823-1         20         10         0.0         20         Grand sland           Bulk Tank         Bantum         180-5984-1         20         10         0.0         20         Michia           Bulk Tank         Benzene         180-5881-1         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.1         0.2         Michia           Bulk Tank         Benzene         180-5881-1         0.2         0.1         0.2         0.2         Michia           Bulk Tank         Benzene         180-4882-1         0.2         0.1         0.2         0.2         0.0         0.2           Bulk Tank         Benzene         180-4882-1         0.2         0.1 | Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.2         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-22085-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-24086-1         2.7         2.7         mg/L         JB         2.0         Grand Island Bulk Tank         Barjum         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         mg/L         JB         2.0         Grand Island Bulk Tank         Berzene         180-25784-1         2.0         10         MWchita         MWchita         MWchita         MWchita         Bulk Tank         Berzene         180-25784-1         0.2         0.1         mg/L         JB         0.2         Grand Island Bulk Tank         Berzene         180-2786-1         0.2         0.1         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         MWchita         Berzene         180-22784-1         0.2         0.1         MWchita | Bellit Tank         Bartum         180-22026-5         2.2         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-42066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-44066-1         2.7         2.7         mg/L         J B         2.0         Grand Island           Bulk Tank         Bartum         180-4686-1         1.0         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2681-1         4.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2878-1         0.2         0.1         mg/L         J D         2.0         Grand Island           Bulk Tank         Berczene         180-2861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-24861-1         0.2         0.1         mg/L         J D         0.2         Sartamento           Bulk Tank         Berczene         180-4788-1         0.2         0.1         mg/L         J D         0.2         Grand Island | Bilk Tank         Bindum         180-2005-1         2.2         2.2         mg/L         JB         2.0         Grand Island           Bilk Tank         Bardum         180-47865-1         2.2         2.2         mg/L         JB         2.0         Branch           Bulk Tank         Bardum         180-47865-1         2.2         2.7         mg/L         JB         2.0         Grand Island           Bulk Tank         Bardum         180-4878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartum         180-5878-1         2.0         1.0         mg/L         J         2.0         Grand Island           Bulk Tank         Bartzene         180-5878-1         0.2         0.1         mg/L         J         2.0         Grand Island           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5887-1         0.2         0.1         mg/L         J         0.2         Sacrament           Bulk Tank         Bertzene         180-5882-1         0.2         0.1         0.2         0.2         Sac | Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island Band           Built Tank         Barium         1804/20561         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Barium         1804/20561         2.7         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         2.0         10         mg/L         J         2.0         Gand Island           Built Tank         Barium         1804/20541         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         mg/L         J         2.0         Gand Island           Built Tank         Berrzene         1804/76541         0.2         0.1         mg/L         J         0.2         Santa Ana           Built Tank         Berrzene         1804/76541         0.2         0.1         0.2         0.2         Gand Island           Built Tank         Berrzene         1804/20541         0.2         0.1         0.2         0.2         Omenia           Built Tank | Bulk Tank         Bentum         180-2206-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band Band           Bulk Tank         Bantum         180-44086-1         2.2         2.2         mg/L         JB         2.0         Grand Island Band           Bulk Tank         Bantum         180-44086-1         2.0         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentum         180-5486-1         2         10         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-5486-1         2         0.1         mg/L         J         2.0         Grand Island Band           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-53847-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank         Bentzene         180-4286-1         0.2         0.1         mg/L         J         0.2         Grand Island           Bulk Tank        
Bentzene         180-4286-1         0.2         0.1         mg/L </td <td>Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank</td> <td>Bailtin         Fall Santim         160-2006-5         2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1</td> <td>Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis</td> <td>Bilk Tank         Bilantman         <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<></td> | Birlith         Birlith         180-22065-1         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.2         2.2         mg/L         JB         2.0         Gand Island           Built Tank         Bantum         180-44036-1         2.7         2.7         mg/L         J         2.0         Gand Island           Built Tank         Bantum         180-4866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         1.0         mg/L         J         2.0         Gand Island           Built Tank         Bentum         180-5866-1         0.1         mg/L         J         2.0         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank         Bentzene         180-5264-1         0.2         0.1         mg/L         J         0.2         Gand Island           Built Tank | Bailtin         Fall Santim         160-2006-5 
       2.2         2.2         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-2006-5         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barium         160-4786-1         2.7         2.7         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         Barrane         160-4862-1         2.0         1.0         mgf.         J.B         2.0         Grand Island           Bulk Tank         Barrane         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         2.0         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-53877-1         0.2         0.1         mgf.         J.B         0.2         Grand Island           Bulk Tank         Berrzene         160-43687-1         0.2         0.1 | Birli, Tank         Bantum         160-2006-1         2.2         2.2         mgf.         J.B         2.0         Grand lished lis | Bilk Tank         Bilantman         Bilantman <t< td=""><td>Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1</td><td>Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis</td><td>Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D.</td><td>Bellik Tanik         Benium         160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0</td><td>Behir (rank in the first in the fi</td><td>Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B</td><td>Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island</td></t<> | Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bulk Tank         Bundan         180-22064 1 22         2.2         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-2347 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bundan         180-25784 1 20         1.0         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         2.0         Grand Island           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         180-25784 1 0.2         0.1         mg/L         JB         0.2         Avridate           Bulk Tank         Bentrane         1 | Bilk Tank         Berjum         180-22064 1         2         mg/L         JB         2         Gand lished lis | Beik Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,22065-         2.2         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.7         7.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benjem         160,24056-         2.0         1.0         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,24766-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,25847-         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,2206-1         0.2         0.1         moff         J.B         2.0         Grand Island           Bulk Tank         Benzene         160,4208-1         0.1         0.1         0.2         Moff         Moff         D. | Bellik Tanik         Benium        
160,022005;         2.2         7.2         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,022005;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benium         160,04905;         2.2         7.7         mg/L         J B         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,04905;         1.0         mg/L         J D         2.0         Grand Band           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         2.0         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,05904;         0.2         1.0         0.2         Archdele           Bulk Tanik         Benzam         160,052004;         0.2         0.1         0.0 | Behir (rank in the first in the fi | Bilk Tarkit         Bandum         1892-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tarkit         Bandum         1804-2008-1         2.2         2.2         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.7         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Bandum         1804-2008-1         2.0         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         1.0         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         2.0         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Avivitals           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B         0.2         Cannel bland           Bulk Tark         Benzame         1805-2008-1         1.2         0.1         mg/L         J.B | Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-22056-1         2.2         2.2         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         2.2         2.7         mpl.         J.B         2.0         Grand Island           Bulk Tarik         Banum         180-24056-1         1.4         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Banum         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         mpl.         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.2         1.0         J.D         2.0         Grand Island           Bulk Tarik         Benzane         180-2406-1         1.0         1.0         0.0         2.0         Grand Island |

Wichita 2013 Wichita 2014 Sacramento 2016 Sacramento 2013 Saramento 2013 Saramento 2013 Saramento 2013 Saramento 2015 Sacramento 2016 Boise 2016 Salt Lake City 2014 Dodge City 2013 Grand Island 2017 Bismarck 2017 Bismarck 2017 Bismarck 2017 Salt Lake City 2013 Comaha 2014 Wichita 2016 Dodge City 2013 Dodge City 2014 Wichita 2016 Dodge City 2013 Dodge City 2014 Wichita 2016 Wichita 2016 Wichita 2016 Wichita 2016 Sacramento 2013 Sacramento 2013 Sacramento 2013 Sacramento 2013 Sacramento 2013 Sacramento 2013 Sacramento 2015 Tallahassee 2015 Archdale 2015 Archdale 2015 Wichita 2017 Wichita 2017 Omaha 2017	
£8	
0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03	0.05 0.05 0.05 0.05 0.05 0.05 0.05
mag/L L L L L L L L L L L L L L L L L L L	
2.3 4 5.8 7 0.016 0.019 0.027 0.058 0.058 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.093 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.097	0.34 0.35 0.35 0.38 0.38 0.49 0.49
180-22924-1 2.1 180-35936-1 2.3 180-35936-1 2.3 180-35936-1 2.3 180-25502-1 50 180-25502-1 50 180-25502-1 50 180-25784-1 0.015 180-25784-1 0.057 180-23302-1 0.057 180-2465-1 0.057 180-2465-1 0.057 180-20709-1 0.075 180-35828-1 0.075 180-35828-1 0.097 180-35820-1 0.097 180-36820-1 0.097 180-36820-1 0.097 180-3684-1 0.017 180-53135-1 0.097 180-53135-1 0.017 180-53135-1 0.017 180-50206-1 0.12 180-50206-1 0.25 180-20206-1 0.25 180-25502-1 0.25 180-25502-1 0.25 180-42883-1 0.25 180-42865-1 0.25 180-43923-1 0.25 180-54965-1 0.25 180-65526-1 0.25	
Benzene Benzene Benzene Benzene Benzene Benzene Benzene Cadmium	
PWS Bulk Tank	

a see seith a site of	Umaha 2016 Vichita 2016 Wichita 2017 Bismarck 2017 Boise 2017 Crand Island 2017 Vichita 2017 Wichita 2017 Wichita 2013 Wichita 2013 Archdale 2016 Wichita 2016 Wichita 2014 Omaha 2017 Wichita 2014 Sacramento 2016 Wichita 2017 Sacramento 2013 Santa Ana 2013
Saft La Sant La Sacra Sant La Sacra Satt La Bist La Dodg Grand Chang Sacra Satt La Bist La Satt La Sat	Gran Gran Dod Or Salt L Arc W W W W W W W W W W W W W W W W W W W
0.5 0.2 0.2 0.25 0.25 0.25 0.25 0.25 0.2	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
7/5 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	######################################
	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
180-18872-1 180-53847-1 180-53847-1 180-58610-1 180-58610-1 180-2095-1 180-2095-1 180-2095-1 180-22095-1 180-22095-1 180-2484-1 180-25502-1 180-35828-1 180-35828-1 180-35820-1 180-35964-1 180-35964-1 180-35964-1 180-47650-1 180-47651-1 180-47651-1 180-45918-1 180-4531-1	180-57963-1 180-58144-1 180-68951-1 180-67589-1 180-67559-1 180-66575-1 180-66575-1 180-6526-1 180-22924-1 180-30864-1 180-36512-1 180-54965-1 180-54965-1 180-53135-1 180-53135-1 180-58921-1 180-53135-1
Cadmium Cadmium Cadmium Carbon Tetrachloride	Carbon Tetrachloride
PWS Bulk Tank	PWS Bulk Tank

Wichita 2015 Sacramento 2016 Salt Lake City 2018 Boise 2013 Dodge City 2013 Crand Island 2013 Crand Island 2013 Crand Island 2013 Crand Island 2014 Fargo 2014 Sacramento 2014 Sacramento 2014 Sacramento 2015 Crand Island 2014 Sacramento 2015 Salt Lake City 2015 Comaha 2016 Wichita 2016 Wichita 2017 Comaha 2013 Wichita 2013 Wichita 2013 Wichita 2013 Comaha 2016 Wichita 2016	a a city
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.5 0.2 0.2 0.2 0.2
	0.25 mg/L U 0.5 mg/L U 25 mg/L U 0.1
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	180-68921-1 0.5 180-30657-1 1 180-25502-1 50 180-25784-1 0.2 180-58610-1 0.2 180-53847-1 0.2
Chlorobenzene	Chlorobenzene Chlorobenzene Chloroform Chloroform Chloroform Chloroform
	PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank

2013 2013 2013 2013 2013 2014 2014 2015 2015 2015 2015 2015 2015 2017 2017 2017 2017 2017 2017 2017 2017	2015 2016 2016 2016 2014
Bismarck Boise Bodge City Dodge City Grand Island Lexington Omaha Sacramento Salt Lake City Wichita Wichita Bismarck Lexington Omaha Sacramento Salt Lake City Wichita Boise Kaukauna Omaha Tampa Wichita Boise Kaukauna Omaha Satt Lake City Salt Lake City Wichita Boise Kaukauna Omaha Tampa Wichita Boise Kaukauna Omaha Tampa Wichita Boise Crand Island Lexington Omaha Salt Lake City Wichita Wichita Wichita Wichita Wichita Wichita Wichita Sarand Island Archdale Wichita	Wichita Sacramento Salt Lake City Tampa Salt Lake City
6.5	
3	
	0.05 0.05 0.5 0.5 0.5
$\frac{1}{2}$	, , , , , , , , , , , , , , , , , , ,
	mg/L mg/L mg/L mg/L
0.000.000.0000.0000.0000.0000.0000.0000.0000	0.014 0.025 0.046 0.085 0.086
2 0 0	14 15 15 15 15 16
	0.014 0.019 0.05 0.046 0.085
180-21042-1 180-20979-1 180-20979-1 180-22095-1 180-22026-1 180-22026-1 180-25502-1 180-35828-1 180-35828-1 180-35828-1 180-3582-1 180-353747-1 180-353747-1 180-42378-1 180-42378-1 180-42378-1 180-4237-1 180-5918-1 180-5918-1 180-5918-1 180-5918-1 180-5918-1 180-5928-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1 180-6525-1	180-3065 / - 1 180-47806-1 180-58610-1 180-58144-1 180-32302-1
\$\psi \times \ti	5 6 6 6 6 6
form form form form form form form form	nium nium nium nium
Chloroform	Chromium Chromium Chromium Chromium Chromium Chromium
	****
	Bulk Tank Bulk Tank Bulk Tank Bulk Tank Bulk Tank Bulk Tank
	PWS PWS SWG PWS SWG SWG

ity to the contract of the con	Wichita 2015 Dodge City 2014 Omaha 2015 Lexington 2017 Sacramento 2017 Exington 2017 Campon 2017 Cand Island 2017 Dodge City 2013 Kaukauna 2016 Omaha 2017 Wichita 2013 Omaha 2016 Salt Lake City 2013 Wichita 2013		Grand Island 2015 Archdale 2016 Wichita 2017 Santa Ana 2013 Wichita 2015 Salt Lake City 2016 Bismarck 2015 Omaha 2016 Tampa 2016 Wichita 2017 Wichita 2017 Wichita 2017 Bismarck 2017
Wic Om Fal Salt La Sacra Sacra Sacra	Wic Dodg Om Sacra Bisr Lexir Cank Cank Om Om Om Wic Wic		Grano Arch Wis Wis Sant La Wish Or Tal
0.000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		0.0.5 0.55 5.55 5.55 5.55 5.55 5.55 5.5
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	m
	7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 8/6u 8/7/7 8/8u 8/9/7 8/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9		mg/L mg/L mg/L mg/L Degrees F
0 / 8 0 4	0.1 0.11 0.11 0.11 0.12 0.13 0.14 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0		1.1 1.1 1.2 5.3 5.3 5.3 > 200 > 200 > 140 > 140 > 140 > 140 165 165 160 160 157 157 155 155 154
180-59184-1 180-36212-1 180-36820-1 180-45918-1 180-20709-1 180-49237-1	180-42328-1 180-35828-1 180-47630-1 180-25502-1 180-20206-1 180-24465-1 180-54031-1 180-6526-1 180-57963-1 180-65526-1	180-68921-1 180-20979-1 180-18801-1 180-18872-1 180-35936-1 180-42378-1 180-43570-1 180-43570-1 180-52531-1 180-52531-1 180-67589-1 180-33747-1 180-22095-1	180-44036-1 180-54965-1 180-53135-1 180-68921-1 180-25784-1 180-5784-1 180-5784-1 180-5786-1 180-57963-1 180-58144-1 180-6875-1 180-68951-1
Chromium Chromium Chromium Chromium Chromium Chromium	Chromium	Chromium	Chromium Chromium Chromium Flash Point
	Bank Bank Bank Bank Bank Bank Bank Bank		PWS Bulk Tank

Dodge City 2014 Tallahassee 2015 Wichita 2016 Salt Lake City 2017 Bismarck 2013 Dodge City 2013 Lexington 2013 Dodge City 2014 Omaha 2014	o . p >	Kaukauna 2016 Grand Island 2017 Boise 2013 Wichita 2013 Grand Island 2015 Grand Island 2015 Grand Island 2017 Boise 2017 Sacramento 2014 Wichita 2013 Wichita 2013 Salt Lake City 2014 Archdale 2016		>> ^P >>
		31 48		
~~~~ <del>~</del> <del>~</del> <del>~</del>			L 200 U U 0.05	0.000000000000000000000000000000000000
153 152 152 152 152 151 151 151 151 151 151			"	m m m
180-35828-1 180-48823-1 180-59184-1 180-65526-1 180-18801-1 180-20206-1 180-30864-1	180-36212-1 180-52531-1 180-52531-1 180-58610-1 180-24465-1 180-24284-1 180-33747-1 180-45918-1 180-45918-1	180-54031-1 180-20979-1 180-22924-1 180-44036-1 180-43570-1 180-67589-1 180-67589-1 180-42328-1 180-18872-1 180-18872-1 180-54965-1		
Flash Point	Flash Point	Flash Point	Flash Point Flash Point Flash Point Flash Point Flash Point Flash Point Halogens, Extractable Organic Hexachlorobenzene Hexachlorobenzene	Hexachlorobenzene
PWS Bulk Tank PWS Bulk Tank		PWS Bulk Tank		

2014 2014 2014 2014 2014	2015 2015 2015 2015 2015 2015 2015 2015		2017 2017 2017 2017 2017 2017 2017 2017	6102
Grand Island Omaha Sacramento Salt Lake City Wichita	Bismarck Grand Island Lexington Omaha Sacramento Salt Lake City Salt Lake City Tallahassee Wichita Archdale	Boise Kaukauna Omaha Tampa Wichita Bismarck Boise Grand Island Lexington Omaha Salt Lake City	Wichita Wichita Lexington Wichita Sacramento Wichita Satt Lake City Bismarck Boise Dodge City Crand Island Omaha Wichita Wichita Dodge City Fargo Grand Island Omaha Sacramento Satt Lake City Wichita	Grand Island
		54		
		53		
- 0.0 0.0 0.0 0.0 0.0 0.0	0.000000000000000000000000000000000000	2.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	6.13 6.14 6.15 6.05	0.13
2222		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- e)
mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	7,6E 7,6E 1,6E 1,6E 1,6E 1,6E 1,6E 1,6E 1,6E		mg/L
0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.47 0.5 0.025 0.025 0.025 0.05 0.05 0.05 0.	0.065
0.13 0.13 0.13 0.13	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	0.05 0.05	0.13
180-33747-1 180-36212-1 180-35964-1 180-32302-1 180-35936-1	180-47865-1 180-44036-1 180-42378-1 180-49237-1 180-43570-1 180-45918-1 180-42328-1	180-52531-1 180-52531-1 180-57963-1 180-58144-1 180-68951-1 180-67589-1 180-66575-1 180-66575-1 180-69236-1	180-68921-1 180-53135-1 180-20206-1 180-30657-1 180-30657-1 180-3847-1 180-23847-1 180-20979-1 180-2095-1 180-24465-1 180-22924-1 180-3282-1 180-36820-1 180-36820-1 180-36820-1 180-35964-1 180-35964-1 180-35964-1 180-35964-1 180-35964-1 180-35964-1	180-44036-1
Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobutadiene	Hexachlorobutadiene
PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank		PWS Bulk Tank		PWS Bulk Tank

Lexington 2015 Omaha 2015 Sacramento 2015 Salt Lake City 2015 Salt Lake City 2015 Tallahassee 2015 Wichita 2015 Archdale 2016 45 Boise 2016	Kaukauna Omaha Tampa Wichita Bismarck Boise Grand Island Lexington Omaha Salt Lake City Wichita Wichita Wichita Wichita Wichita Satramento Wichita Dodge City Bismarck Boise Dodge City Grand Island Omaha Wichita Omaha Sacramento Salt Lake City Comaha Wichita Dodge City Comaha Wichita Dodge City Comaha Sacramento Salt Lake City Comaha Sacramento Salt Lake City Salt Lake City Wichita Bismarck Grand Island Lexington Omaha Sacramento Salt Lake City Wichita Bismarck Grand Island Lexington Omaha Sacramento Salt Lake City Wichita
29	
0.13 0.13 0.13 0.13 0.13 0.13	2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
	, , , , , , , , , , , , , , , , , , ,
7,5 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	7/56 E E E E E E E E E E E E E E E E E E E
0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.05 0.0
6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
180-42378-1 180-42378-1 180-49237-1 180-43570-1 180-45918-1 180-48823-1 180-42328-1 180-52631-1	180-54031-1 180-54031-1 180-53135-1 180-53135-1 180-68951-1 180-68575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-66575-1 180-2020-1 180-2020-1 180-2020-1 180-2020-1 180-36841-1 180-36841-1 180-36841-1 180-35864-1 180-35864-1 180-35936-1 180-35936-1 180-47630-1 180-47630-1 180-45511-1 180-45511-1 180-45511-1 180-45511-1 180-45511-1 180-45511-1
Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene	Hexachlorobutadiene Hexachlorothane Hexachloroethane
PWS Bulk Tank	

Archdale Boise Kaukauna Omaha Tampa Wichita Wichita Bismarck Boise Grand Island Lexington Omaha Salt Lake City	Vichita Wichita Lexington Wichita Sacramento Sacramento Sacramento Santa Ana Wichita Vichita Lexington Tallahassee Boise Wichita Archdale Dodge City Salt Lake City Wichita Archdale Dodge City Salt Lake City Wichita Archdale Dodge City Salt Lake City Salt Lake City Wichita Archdale Dodge City Salt Lake City Salt Lake City Salt Lake City Salt Lake City Wichita	Boise Kaukauna Lexington Salt Lake City Salt Lake City Wichita Boise Dodge City Tampa Sacramento Sacramento Satr Lake City Salt Lake City Salt Lake City
45		48
58		₩
0.000000000000000000000000000000000000		5.0. 5.0. 6.0. 7.0. 7.0. 7.0. 7.0. 7.0. 7.0. 7
	ר רר ר <mark>ש</mark> רכררר ררר רככככ ^ט י	
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7,5 2,7 3,7 3,7 3,0 4,0 6,0 7,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8	1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.034 0.039 0.39 0.39 0.39 0.39 0.39 0.39 0.3	- <u> </u>
0.000000000000000000000000000000000000	0.13 0.13 0.13 0.034 0.039 0.39 0.39 0.39 0.39 0.39 0.39 0.3	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
180-54965-1 180-52531-1 180-57963-1 180-58144-1 180-59184-1 180-67589-1 180-67589-1 180-6575-1 180-69236-1	180-65526-1 180-64795-1 180-64795-1 180-20206-1 180-58610-1 180-58610-1 180-5784-1 180-53847-1 180-68951-1 180-42378-1 180-52531-1 180-52531-1 180-52531-1 180-54965-1 180-54965-1 180-45918-1 180-45918-1 180-42328-1	180-5872-1 180-20979-1 180-54031-1 180-6555-1 180-32302-1 180-22924-1 180-67589-1 180-58144-1 180-25502-1 180-25502-1 180-65526-1 180-65526-1 180-653135-1
Hexachloroethane	Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Lead Lead Lead Lead Lead Lead Lead Lea	Lead Lead Lead Lead Lead Lead Lead Lead
PWS Bulk Tank		PWS Bulk Tank

2017	2014	2013	2014	2015	2015	2014	2016	2017	2013	2017	2013	2015	2013	2016	2015	2014	2016	2016	2014	2016	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2017	
Wichita	Omaha	Dodge City	Wichita	Omaha	Bismarck	Grand Island	Omaha	Omaha	Lexington	Grand Island	Grand Island	Grand Island	Omaha	Archdale Sopto Apo	Wichita	Wichita	Sacramento	Salt Lake City	Grand Island	Татра	Bismarck	Boise	Dodge City	Dodge City	Grand Island	Omana	Satramento Selt Leke City	Salt Lake Oity Wichita	Wichita	Dodge City	Dodge City	Fargo	Omaha	Sacramento	Salt Lake City	VVICILITA	Grand Island	Lexington	Omaha	Sacramento	Salt Lake City	Salt Lake City	lallahassee	Boise	Omana	vvichita Wichita	Bismarck	
																																								47								
																																								30								
-	τ	0.3	*	-	•	ς-	-	·	0.3	- ;	0.3	- (0.3	0.0002	0.0002	0.002	0.002	0.0002	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	
									m	ı	m			a -	o =	o =) ⊃		7	JB	⊃	⊃))) :	⊃ :)	o =	o =) ⊃) ⊃	⊃	⊃)) :	o =) ⊃	⊃	ם	כ	י כ)) :) :	> :	⊃ <u>r</u>	- - -)
mg/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ו ס
2	2.2	2.8	2.9	က	3.4	5.6	မ	ဖ	6.5	10	15	12	23	0.000066	0.000	0.000	0.001	0.0012	0.0071	0.0097	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0103	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	0.0165	
2	2.2	2.8	5 0.5	က	3.4	5.6	ဖ	ဖ	6.5	9	12	12	23	0.000066	0.0002	0.000	0.002	0.0012	0.0071	0.0097	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	
180-64795-1	180-36212-1	180-24465-1	180-35936-1	180-47630-1	180-47865-1	180-33747-1	180-57963-1	180-69236-1	180-20206-1	180-70325-1	180-22095-1	180-44036-1	180-24284-1	180-54965-1	180-25/84-1	180-30657-1	180-58610-1	180-53847-1	180-33747-1	180-58144-1	180-21042-1	180-20979-1	180-24465-1	180-18801-1	180-22095-1	180-24284-1	180-25502-1	180-20709-1	180-22924-1	180-30864-1	180-35828-1	180-36820-1	180-36212-1	180-35964-1	180-32302-1	180-35936-1	180-44036-1	180-42378-1	180-47630-1	180-49237-1	180-43570-1	180-45918-1	180-48823-1	180-52531-1	180-57963-1	180-53135-1	180 68051-1	
Lead	Lead	lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Melodiy
											\$ · 4											_	-					, ·	, .	, .	,		V	~		<i>,</i>	, .					. ~	~	_~	~			۷
PWS Bulk Tank						PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk		PWS Bulk Tank	PWS Bulk Tank			PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk		PWS Bulk Tank	Bulk	PWS Bulk Tank	PWS Bulk Tank	Bulk	PWS Bulk Tank	B I K	Bulk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk	PWS Bulk Tank	Bulk	Bulk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk	PWS Bulk Tank	Bulk	Bulk	PWS Bulk Tank	TWO DUIN LAIL				

2013 2013	2013
Boise Grand Island Lexington Omaha Salt Lake City Wichita Wichita Wichita Santa Ana Wichita Santa Ana Wichita Sacramento Dodge City Grand Island Salt Lake City Wichita Boise Kaukauna Wichita Dodge City Omaha Salt Lake City Wichita Dodge City Wichita Omaha Salt Lake City Wichita Dodge City Wichita Dodge City Salt Lake City Wichita Omaha Grand Island Salt Lake City Wichita Dodge City Salt Lake City Earngo Omaha Grand Island Salt Lake City Bismarck Boise Fargo Omaha Grand Island Salt Lake City Exington Tampa Lexington	Sacramento
64	
E	
0.033 0.033 0.033 0.033 0.033 0.033 0.023 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	mg/L
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0171 0.0175 0.125 0.	6.2
0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.02 0.25 0.25 0.25 0.25 0.25 0.25 0.25	6.2
180-67589-1 180-66575-1 180-66575-1 180-69236-1 180-64795-1 180-64795-1 180-5731-1 180-5784-1 180-5784-1 180-5784-1 180-5784-1 180-5784-1 180-5784-1 180-5784-1 180-5781-1 180-69236-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6933-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-6951-1 180-7036-1 180-7036-1 180-7036-1 180-7036-1 180-7036-1 180-7036-1	180-25502-1
Mercury Merthyl Ethyl Ketone Methyl Ethyl Ketone	Methyl Ethyl Ketone
PWS Bulk Tank	PWS Bulk Tank

2013 2014 2014 2014 2013 2013 2013	2013 2013 2013 2013 2013 2014 2014 2014	2014 2014 2014 2015 2015 2015 2015 2015 2015 2015 2016 2016	2016 2016 2016 2017 2017 2017 2017 2017 2016 2016 2016
Omaha Lexington Wichita Sacramento Sacramento Archdale Wichita Bismarck	Dodge City Dodge City Grand Island Lexington Omaha Salt Lake City Wichita Wichita Dodge City Dodge City Fargo	Omaha Sacramento Salt Lake City Wichita Bismarck Grand Island Lexington Omaha Sacramento Salt Lake City Salt Lake City Tallahassee Wichita Boise Kaukauna	Umana Tampa Wichita Wichita Bismarck Grand Island Lexington Omaha Salt Lake City Wichita Boise Wichita Salt Lake City Sacramento Archdale
		94	
		90	
0.25 0.25 0.25 50 10 0.05			
כככ כ			- C - C - C - C - C - C - C - C - C - C
1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7,6m 7,6m 7,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1
13 16 19 24 25 470 0.25 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5 0.5 1.65 20
13 16 19 24 24 50 50 0.05			
180-24284-1 180-20206-1 180-30657-1 180-35964-1 180-25502-1 180-54965-1 180-21042-1	180-20979-1 180-24465-1 180-22095-1 180-20206-1 180-24284-1 180-18872-1 180-2924-1 180-30864-1 180-36820-1 180-36820-1	180-36212-1 180-35964-1 180-35964-1 180-35936-1 180-47865-1 180-42378-1 180-42378-1 180-49237-1 180-45918-1 180-42328-1 180-52531-1	180-57963-1 180-58144-1 180-53135-1 180-68951-1 180-66575-1 180-69236-1 180-69236-1 180-69236-1 180-6921-1 180-65526-1 180-67589-1 180-53847-1 180-53847-1
Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methylphenol, 3 & 4 Methylphenol, 3 & 4	n m	Methylphenol, 3 & 4	Methylphenol, 3 & 4
PWS Bulk Tank			PWS Bulk Tank

Wichita 2015 Salt Lake City 2016 Bismarck 2013 Boise 2013 Dodge City 2013 Crand Island 2013 Comaha 2013 Wichita 2013 Wichita 2013 Wichita 2013 Wichita 2014 Comaha 2014 Comaha 2014 Comaha 2014 Comaha 2014 Comaha 2014 Comaha 2014 Sacramento 2014 Wichita 2015 Comaha 2015 Comaha 2015 Salt Lake City 2014 Wichita 2015 Cand Island 2015 Comaha 2015 Cand Island 2015 Cand Island 2015 Cand Island 2015 Comaha 2015 Salt Lake City 2015 Salt Lake City 2015 Salt Lake City 2015 Comaha 2016 Wichita 2016 Wichita 2016 Wichita 2016 Wichita 2016 Wichita 2016	ond city ty t
30	
0.00	
7/5cm	
0.05 0.05	0.5 1 0.5 1 1 0.5 1.9 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.1 0.05 0.05 0.1 0.05
180-47806-1 180-53847-1 180-21042-1 180-20979-1 180-22095-1 180-22095-1 180-20206-1 180-20206-1 180-20206-1 180-20206-1 180-2020-1 180-35828-1 180-35828-1 180-35964-1 180-35964-1 180-35964-1 180-35964-1 180-35964-1 180-4765-1 180-4765-1 180-49237-1 180-4955-1 180-45918-1 180-45918-1 180-45918-1 180-5531-1 180-5531-1	180-59104-1 180-68951-1 180-6575-1 180-6575-1 180-6575-1 180-64795-1 180-68921-1 180-28921-1 180-21042-1 180-21042-1 180-20979-1 180-24465-1 180-24465-1
Nitrobenzene	Nitrobenzene Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol
	PWS Bulk Tank

	VVICNITA 2013 Dodge City 2014			٦			Salt Lake City 2014 Wichita 2014		Ţ			0		>	90		Archdale 2016		σ		1 ampa 2016 Wishits 2016			Boise 2017	þ			ity				Salt Lake City 2016	_	VVICNITA 2014			Wichita 2014	Sacramento 2013					<u>و</u>			>	Dodge City 2013	
> ?		30 G	<u>. </u>	Grar	0	Sac	Jaic	v sig	מם יביה	5	0	Sac	Salt	Salt	Tall	S ,	Ar.	2	Na Va	29 45 67	- %				יים ביים	<u> </u>	o O	Salt	>	>	> :	Salt	e .	V 020	280	. >	>	Sac	Fe	Ď	Sac	Sac	Sac		ος : -	Salt	on O	
0.1	0.1	0.13	0.13	0.13	0.13	0.13	0.13	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.25	0.25	, c	5. 6.	, ,	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	
ɔ :) =	o	ם)	⊃ :	⊃ :	o =	o =	o =	o <u>*</u>	₂ ⊃) ⊃	D	⊃	⊃	⊃	⊃:	o :	> :	:)) :	> :) =	> =	o =	o =) ⊃	*	⊃	⊃)) :)	דכ	: I	生		I		エ	I	生	I	I:	Ι:	Í	
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L	mg/L mg/l	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Mo Unite	No Units	No Units	No Units	No Units	No Units	No Units	No Units	No Units	No Units	No Units	No Units	No Units										
0.05	0.05	0.065	0.065	0.065	0.065	0.065	0.065	0.000	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.125	0.125	2.5	4.65	0. Z	5.02	5.15	5.71	5.78	5.89	6.25	6.27	6.3	6.35	6.37	6.61	6.69	
0.1	0.1	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.0	0.0	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.25	0.25	ഗ	က က (၁)	<u> </u>	50.5	5.15	5.71	5.78	5.89	6.25	6.27	6.3	6.35	6.37	6.61	69.9	
180-18872-1	180-22924-1	180-35828-1	180-36820-1	180-33747-1	180-36212-1	180-35964-1	180-32302-1	180-35936-1	180-4/865-1	180 43278 1	180-42630-1	180-49237-1	180-43570-1	180-45918-1	180-48823-1	180-42328-1	180-54965-1	180-52531-1	180-54031-1	180-57963-1	180-58144-1	180-53135-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-66575-1	180-65526-1	180-64795-1	180-68921-1	180-47806-1	180-53847-1	180-20206-1	180-30657-1	180-58610-1	180-35936-1	180-30657-1	180-25502-1	180-42378-1	180-30864-1	180-35964-1	180-49237-1	180-58610-1	180-36212-1	180-18801-1	180-32302-1	180-24465-1	
Pentachlorophenol	Pentachlorophenol	Pentachlorophenol Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	5 5	- T	Z T	Ha	Ha	Ha	, To	Hd	Hd	Hd	Hd	Hd	
		PWS Bulk Lank						PWS Bulk Tank		PWS Bulk Tank						PWS Bulk Tank			PWS Bulk Tank	PWS Bulk Tank						Buk E	PWS Bulk Tank				Buk	PWS Bulk Tank	Balk			PWS Bulk Lank					Bulk	Bulk	PWS Bulk Tank	Bulk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	

ify se	Wichita 2015 Dodge City 2014 Lexington 2017 Wichita 2017 Omaha 2013 Wichita 2016 Boise 2013 Boise 2017 Fargo 2017	nd nd nd Sity	>>>	Dodge City 2013 Dodge City 2013 Grand Island 2013 Lexington 2013 Omaha 2013 Wichita 2013 Wichita 2013 Wichita 2013 Dodge City 2014 Fargo 2014 Grand Island 2014
	24.84	OF 1		
1111 II				
	No Units No Units No Units No Units No Units SU SU No Units No Units No Units No Units No Units		ស ស ស ស	
7 6.7 53 6.83 55 6.85 66 6.86 77 6.87 9 6.9			± 10 = 10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
				180-24465-1 180-18801-1 180-22095-1 180-20206-1 180-20206-1 180-20709-1 180-22924-1 180-35828-1 180-33747-1
	<u> </u>	<u> </u>	pH pH pH pH pH Pyridine Pyridine Pyridine	Pyridine
PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank PWS Bulk Tank	PWS Bulk Tank		PWS Bulk Tank	PWS Bulk Tank

Omaha 2014 Sacramento 2014			Grand Island 2015	_	Omana 2015 Sacramento 2015	_				d)		Kaukauna 2016	Tampa 2016			Bismarck 2017		9	_		ξ			_	Santa Ana 2013	Solt Lake City, 2016	Wichita 2014	9					nd	Omaha 2013	2	Wichita 2013	Salt Lake City 2013		_		<u>}i</u>			_		
									30 46																																					
יטיטיו	വറ	2	ហេ	ا م	א מ	ט ער	טירט	Ω.	c)	5	ເດເ	ຄເ	റേഗ	יט ער	5	2	2	2	2	Ŋ	2	ည	വ	9.9	0.05	C. C	0.0	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.0 c.0	O. O.	ດ ປ	 					, c	; -		-
> > =	o	⊃	⊃:) :	> =	o =	o <u>*</u>	, ⊃	_	⊃)) :	> =) =	· ⊃	⊃	D	D	⊃	D	コ	D	⊃	> !	ე - ფ ი	n -	<u>_</u> =	o ⊃) ⊃	\supset	⊃	⊃	⊃ ¹	⊃ :	o :) :	o -	۔ د	ے <u>۔</u> ت ت	o _	- c	, -	- c	> =) =)
mg/L mg/L	mg/L ma/L	mg/L	mg/L	mg/L	mg/L mg/l	g/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	1/gu	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L "	mg/L	mg/L	mg/L	mg/L	mg/L	7 /6	mg/L	mg/L	mg/L mg/l	mg/L
2.5	2.5	2.5	2.5	2.5	2.5 5.5	., c	2 7.5	2.5	2.5	2.5	2.5	2.5	2.7.5 7.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	0.0081	0.029	0.034	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.35	0.30	0.30		4.0	0.4.O ₹.O	C.O	U.O
ມດນ	വാ	2	2	2	ហេដ	n u	ם עם	ດນ	2	2	5	ı O	Ω L	ט ער	o ro	2	2	2	5	2	2	2	Ω	9.9	0.0081	0.029	0.034	. c	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.26	0.35	0.00	0000	6.5	4.0	0.46	- k	
180-36212-1 180-35964-1	180-32302-1 180-35936-1	180-47865-1	180-44036-1	180-42378-1	180-47630-1	100-49237-1	180-45370-1	180-48823-1	180-42328-1	180-54965-1	180-52531-1	180-54031-1	180-57963-1	180-53135-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-66575-1	180-69236-1	180-65526-1	180-64795-1	180-68921-1	180-58610-1	180-25784-1	180-47806-1	180-53847-1	180-50657-1	180-21042-1	180-20979-1	180-24465-1	180-18801-1	180-22095-1	180-24284-1	180-25502-1	180-18872-1	180-22924-1	180-20/09-1	180-35828-1	180-33/4/-1	180-39212-1	100-43370-1	180-4/865-1	180-20206-1	180-30864-1	180-36820-1
Pyridine Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyndine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	الالتاريخ	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium
Balk Balk	PWS Bulk Lank PWS Bulk Tank	Bulk	Bulk	Bulk	BG:	Bulk	PWS Bulk Tank	B E	Bulk	PWS Bulk Tank	Bulk	Bulk	PWS Bulk Tank	DIVIS BUILTOOK	E E	E E	BE	BE	Bulk	PWS Bulk Tank	Bulk	Bulk	Balk	PWS Bulk Lank	R E				PWS Bulk Tank			PWS Bulk Tank		Buk							PWS Bulk Tank	PWS Bulk Tank				

nento 2014 ita 2014 ita 2014 sland 2015 gton 2015 iha 2015 nento 2015	Wichita 2015 Archdale 2016 Boise 2016 Kaukauna 2016 Omaha 2016 Wichita 2016 Wichita 2017 Boise 2017 Boise 2017 Cand Island 2017 Wichita 2017 Wichita 2017 Wichita 2017 Wichita 2017 Wichita 2017 Wichita 2013 Dodge City 2013 Dodge City 2013 Wichita 2013 Wichita 2013 Wichita 2013 Wichita 2013 Wichita 2013 Wichita 2014 Omaha 2014 Omaha 2014 Sacramento 2014 Omaha 2014 Sacramento 2014 Omaha 2014 Sacramento 2014 Omaha 2015 Sacramento 2014 Omaha 2014 Sacramento 2014 Omaha 2015
Sacramento Salt Lake City Wichita Grand Island Lexington Omaha Sacramento	Wichita Archdale Boise Kaukauna Omaha Tampa Wichita Bismarck Boise Grand Island Lexington Omaha Salt Lake City Wichita Sacramento Grand Island Sacramento Grand Island Wichita Bismarck Bismarck Bismarck Bismarck Bismarck Bismarck Bismarck Bismarck Boise Dodge City Cand Island Wichita Lexington Omaha Satt Lake City Dodge City Fargo Grand Island Omaha Sacramento Grand Island Omaha Sacramento
8	
mg/L mg/L mg/L mg/L	
0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.05 0.05 0.05
180-35964-1 1 180-32302-1 1 180-35936-1 1 180-44036-1 1 180-42378-1 1 180-49237-1 1 1 180-49237-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180-48823-1 180-48823-1 180-54965-1 180-54965-1 180-5531-1 180-5531-1 180-58144-1 180-58144-1 180-59184-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-68526-1 180-22024-1 180-22024-1 180-22036-1 180-22036-1 180-22036-1 180-2204-1 180-2206-1 180-2206-1 180-2206-1 180-38872-1 180-38820-1 180-38820-1 180-38820-1 180-38820-1 180-38820-1 180-38820-1 180-38820-1 180-36820-1
e)	
Selenium Selenium Selenium Selenium Selenium Selenium	Selenium Silver
PWS Bulk Tank	PWS Bulk Tank

																								4																					
2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2016	2015	2015	2013	2016	2017	2015	2015	2016	2014	2013	2014	2015	2016	2013	2017	2016	2017	2017	2015	2013	2014	2017	2017	2013	2013	2014	2013
Salt Lake City	Wichita	Wichita	Archdale	Boise	Kaukauna	Omana	Salt Lake City	Татра	Wichita	Wichita	Bismarck	Boise	Giand Island	Omaha	Salt Lake City	Wichita	Wichita	Salt Lake City	Wichita	Tallahassee	Santa Ana	Archdale	VVICNITA	Sacramento	Sacramento	Wichita	Wichita	Lexington	Wichita	Fismarck	l ampa Wichita	Wichita	Lexington	Kaukauna	Salt Lake City	Bismarck	Wichita	Offialla Dodgo City	Vichita	Dodge City	Grand Island	Sacramento	Dodge City	Grand Island	Dodge City
	48																																												49
	31											E																																	31
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5 5.0	ο c		0.5	0.5	0.5	0.2	0.2	0.25	0.2	0.5	0.5	0.25	0.23	0 3 3 5	_	0.25	0.25	n a	o c	 	10	10	ည	25	ນ ຕ	70	2 6) (25	0.25	50	25	25
> =	o	D	D) :	⊃ :) :	⊃ :)	⊃))	⊃:) =	o =	o =) ⊃))	7	⊃	7	つ) :	D								Đ			5.								Ш	I		
mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L	7/Jul	J/bШ	ma/L	mg/L	mg/r ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	//ba							
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.091	0.1	0.15	0.18	0.25	0.25	0.37	0.08	2.1	4.4	19	23	120	041	180	220	250	250	300	310	380	380	390	420	440	460	460	470
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	Ω u		5 6	0.5	0.091	0.2	0.15	0.18	0.5	0.5	0.37	0.59	2.1	4.	19	23	120	140	180	220	250	250	300	310	390	390	390	400	440	460	460	470
180-45918-1	180-42328-1	180-47806-1	180-54965-1	180-52531-1	180-54031-1	180-57963-1	180-53847-1	180-58144-1	180-53135-1	180-59184-1	180-68951-1	180-67589-1	180-70325-1	180-665/5-1	180-69236-1	180-64795-1	180-68921-1	180-53847-1	180-47806-1	180-48823-1	180-25784-1	180-54965-1	180-68921-1	180-49237-1	180-423/8-1	180-58610-1	180-30657-1	180-20206-1	180-35936-1	180-47865-1	180-58144-1	180-29164-1	180-66575-1	180-54031-1	180-65526-1	180-68951-1	180-42328-1	180-24284-1	180-30864-1	180-64/95-1	180-33626-1	180-25502-1	180-18801-1	180-33747-1	A 100 00 A
Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Tetrachloroethene	I etrachloroethene Tetrachloroethene	Tetrachloroethene	Tetrachloroethene	l etrachloroethene	Tetrachloroethene	Tetrachloroethene	Tetrachloroethene	Tetrachloroethene	H																		
PWS Bulk Tank						PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk	Bulk	Bak	PWS Bulk Lank		# H		BUK	Bulk	PWS Bulk Tank	Bulk	Bulk	Bulk:	Bulk	PWS Bulk Lank	Bulk	Bulk	PWS Bulk Tank	Bulk	Bert	PWS Bulk Lank	Balk	PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	Bulk	87 i	Barre a	Bulk	PWS Bulk Tank		BE F		=

2013 2013 2014 2015 2015 2015 2015 2015 2015 2016 2015 2016 2017 2018 2018 2019 2019 2019 2019 2019	
Wichita Fargo Omaha Salt Lake City Grand Island Omaha Salt Lake City Boise Omaha Salt Lake City Omaha Salt Lake City Omaha Sacramento Bismarck Boise Boise Boise Boise Racramento Bismarck Lexington Sacramento Wichita Archdale Wichita Sacramento Vichita Dodge City Wichita	Sacramento Sacramento Boise Wichita Grand Island Omaha Dodge City Wichita Omaha Wichita
	94
	8
50 50 50 50 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
ם מברררככככככככר	
7/50 7/50 7/50 7/50 8/6 8/6 8/6 8/6 8/6 8/6 8/6 8/6 8/6 8/6	mg/L mg/L mg/L mg/L mg/L mg/L mg/L
	ĔĔĔĔĔĖĖĖĖE
480 530 530 540 540 640 640 640 640 640 640 640 640 640 6	0.78 0.91 1.4 1.6 1.6 1.6 1.6 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
480 530 530 540 540 660 660 660 640 640 740 740 930 930 930 930 930 930 930 930 930 93	0.78 0.91 1.1 1.6 1.6 2.5 2.2 3.2 3.2 3.2 3.3 5.5
180-18872-1 180-36820-1 180-20799-1 180-20095-1 180-44036-1 180-45318-1 180-65236-1 180-65236-1 180-52502-1 180-52502-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-5231-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-53135-1 180-53135-1 180-53135-1	180-18801-1 180-25502-1 180-20979-1 180-33747-1 180-34465-1 180-64795-1 180-69236-1 180-42328-1 180-58144-1
Tetrachloroethene Trichloroethene	Trichloroethene
	PWS Bulk Tank

Wichita 2014 Boise 2017 Grand Island 2013 Grand Island 2015 Omaha 2016 Salt Lake City 2017 Wichita 2013 Bismarck 2017 Omaha 2013		Salt Lake City 2013 Dodge City 2014 Fargo 2014 Grand Island 2014 Sacramento 2014 Wichita 2014 Wichita 2014 Bismarck 2015 Lexington 2015 Omaha 2015 Sacramento 2015 Satt Lake City 2015 Salt Lake City 2015 Tallahassee 2015 Wichita 2015	a n n Sity
0.25 0.25 0.25 0.5 0.25 0.25 0.25	0.25 0.25 0.25 0.1 0.1 0.1 0.1	- - - - - - - - - - - - - - - - - - -	0.1 0.1 0.1 0.1 0.1 0.2 0.2
3.6 5.1 5.5 6.9 mg/L 8.6 mg/L 10 mg/L 13 mg/L 13 mg/L		0.05 mg/L 0.06 mg/L 0.06 mg/L 0.07 0.05 mg/L 0.07 0.05 mg/L 0.07 0.05	
180-35936-1 3.6 3 180-67589-1 5.1 5.1 180-22095-1 5.5 5 180-44036-1 6.9 6 180-57963-1 8.6 8 180-65526-1 8.6 8 180-68951-1 10 1 180-24284-1 13 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	180-20709-1 0.1 0.1 0.1 180-35828-1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	
	Trichloroethene 180 Trichloroethene 180 Trichloroethene 180 Trichloroethene 180 Trichloroethene 180 Vinyl Chloride 180	Vinyl Chloride	Chloride Chloride Chloride Chloride chloride chloride chloride chloride chloride Chloride Chloride
PWS Bulk Tank	PWS Bulk Tank	PWS Bulk Tank	

2013 2014 2015 2015 2016 2016 2016 2016	
Wichita Dodge City Omaha Grand Island Wichita Archdale Sacramento Salt Lake City Wichita	Wichita Sacramento
000000000000000000000000000000000000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
22222222	D D
7/6 2/7/7 2/6/	7/6 m8/F
0.0000000000	0.5
000000000000000000000000000000000000000	20
180-22924-1 180-30864-1 180-36212-1 180-44036-1 180-54965-1 180-58610-1 180-53847-1 180-53135-1	180-25502-1
Vinyl Chloride	Vinyl Chloride Vinyl Chloride
PWS Bulk Tank	PWS Bulk Tank PWS Bulk Tank

1,4-Dichlorobenzene Average 0.281667 2,4,5-Trichlorophenol Average 0.255 2,4-5-Dinitrotoluene Average 0.232 Arsenic Average 0.0237 Barium Average 1.015909 Cadmium Average 0.303111 Chromium Average 0.363518	31667 255 232 3237 15909 18056 33518
0	255 232 3237 15909 18056 3311
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	232)237 5909 8056 3311
)237 15909 18056 33111 33518
	15909 18056 33111 33518
	18056 33111 33518
)3111 33518
	53518
Flash Point Average 148.6136	.6136
Halogens, Extractable Organic Average 489.5	39.5
Hexachlorobenzene Average 0.47	.47
	34532
Mercury Average 0.041511	41511
Methyl Ethyl Ketone Average 27.69476	39476
	96667
pH Average 7.112292	12292
Selenium Average 0.308425	38425
Silver Average 0.06223	6223
/erage	2.187
Trichloroethene Average 8.732324	32324
Grand Average 77.16158	16158

YEAR	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	71.07	7107	7107	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2015	2015	2016	2016	2016	2017	2017	2017	2015	2015 2015	
FACILITY	Archdale	Bismarck	Boise	Chandler	Charlotte	Clackamas	Grand Island	Omaha	Kaleigh	Sacramento	Salt Lake City	Tallahassee	Tulsa	Wichita	Wichita	Farmington	Archdale	Boise	Chandler	Charlotte	Clackamas	Farmington	Omaha	Raleigh	Sacramento	Salt Lake City	Tampa	Wichita	Wichita	Archdale	Bismarck	Boise	Chandler	Clackarnas	Farmington Grand Island	Omaha	Rafeigh	Salt Lake City	Tulsa	Wichita	Wichita	Sacramento	Oklahoma City	St Pauls	Albuquerque	St. Pauls	Tulsa	Albuquerque	Oklahoma City	St Pauls	Archdale	Boise Boise	
LIMIT UTH VALUE COUNT																												33				32 51																					
Q	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.0	2.0	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0 0	0.2	
QUALIFIER REPO)	n	D	* ∩)	⊃)) :	o :) :	- :	> :	⊃	- :) :	ɔ :)	D :	D))	-)))	⊃	\cap) :)	⊃ ;	-	n	⊃:) :)	o =	o =	> =) =) ⊃	нп	n	ם	∩	⊃	⊃	ם	* _	D :	* :	⊃:	ם ם	
SLINO	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/∟ mg/l	mg/L	11g/L) 	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/L)							
RANKED DATA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	- ·	. c	. c	. c	0.1	0.1	0.1	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.7	0.0	
RESULT	0.2	0.2	0.2	0.2	0.2					0.2			0.2						0.2						0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0))) (7 0	7.0	, C	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.5	
	180-43316-1	180-47867-1	180-43113-1	180-42428-1	180-44137-1	180-47746-1	180-44037-1	180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-48521-1	180-44554-1	180-41900-1	180-47804-1	180-51962-1	180-54935-1	180-52551-1	180-57485-1	180-58404-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180-53845-1	180-58143-1	180-53132-1	180-59192-1	180-65701-1	180-68952-1	180-66652-1	180-64611-1	180-69205-1	180-68914-1	180-70330-1	180-69233-1	180-70394-1	180-63323-1	180-64798-1	180-68834-1	180-70519-1	180-45020-1	180-48171-1	180-58745-1	180-56014-1	180-58734-1	180-70384-1	180-69241-1	180-68774-1	180-43316-1	180-47867-1 180-43113-1	,
PARAMETER	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1, 1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethane								
MATRIX	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Studge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster		Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge PWS Dumpster Sludge	בות בייות בייות בייות																		

Chandler 2015 Charlotte 2015 Charlotte 2015 Clackamas 2015 Omaha 2015 Sacramento 2015 Sat Lake City 2015 Tulsa 2015 Archdale 2016 Charlotte 2016 Sacramento 2017 Archdale 2017 Boise 2017 Clackamas 2017 Raleigh 2017 Clackamas 2017 Clackamas 2017 Clackamas 2017 Clackamas 2017 Clackamas 2017 Archdale 2017 Clackamas 2017 Clackamas 2017 Clackamas 2017 Archdale 2017 St Pauls 2017 St Pauls 2015 St Pauls 2017 St Pauls 2017 Clackama City 2015 St Pauls 2017 Clackama City 2015 St Pauls 2017 Clackama City 2015 Chandler 2015 Chandler 2015 Charlotte 2015 Clackamas 2015	
5	
32	
2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
000000000000000000000000000000000000000	
180-42428-1 180-44137-1 180-44037-1 180-49103-1 180-49103-1 180-49103-1 180-49100-1 180-49100-1 180-58682-1 180-59192-1 180-58682-1 180-58404-1 180-58683-1 180-58683-1 180-58683-1 180-58683-1 180-58683-1 180-58683-1 180-69265-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-69216-1 180-69216-1 180-69216-1 180-69216-1 180-69216-1 180-69211-1 180-69211-1 180-69211-1 180-68774-1 180-68774-1	
1,2-Dichloroethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	
PWS Dumpster Sludge	

2015 2015 2015	2015	2015	2015	2015	2015	2016	2016	2010	2016	2016	2016	2016	2016	2010	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2015	2015	2016	2016	2017			2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	20
Omaha Raleigh Sacramento	Salt Lake City	Tallahassee	Wichita	Wichita	Farmington	Archdale	Boise	Charlotte	Clackamas	Farmington	Omaha	Raleigh	Sacramento	Jampa Tampa	Wichita	Wichita	Archdale	Bismarck	Boise	Chandler	Clackamas	Farmington	Grand Island	Omaha	Kaleign Solt Loko City	Sall Lake Oily Tilka	Wichita	Wichita	Sacramento	Oklahoma City	St Pauls	Albuquerque	ot. Padis Tillee	Albuduerdue	Oklahoma City	St Pauls	Archdale	Bismarck	Boise	Chandler	Charlotte	Grand Island	Omaha	Raleigh	Sacramento	Salt Lake City	ומוומוסססט
																			21																												
																			32																												
0 0 0 0 0 0 0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.0	0.2	0.2	0.2	0.2	0.5	2.0 2.0	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.0	7.0	7.O 7.C	0.2	0.2	0.25	0.25	0.25	0.25	0.23	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00
$\supset \supset \supset$	\supset	> =	o	n	⊃:) :	- -	o =	o) ⊃	ס	⊃	> :	o =	o =) ⊃	⊃	⊃	ם	ם	D	⊃ :	D)	> =	o =	o =	D O	כ	⊃)	- :) =	o =) ⊃) ⊃) ⊃	· ⊃	⊃	ם	Π	⊃	⊃	⊃)) :	D
mg/L mg/L mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Tig/L	7/BU	ma/L	ma/L	mg/L	J/ĝш																														
0.00	0.1	0 0	. 0	0.1	0.1	0.1	0.0		. 0	0.1	0.1	0.1	0 C		. c	0.1	0.1	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.0	. · ·		. 0	0.1	0.125	0.125	0.125	0.125	0.123	0.125	0.125	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0 0 0 0 2 2 2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.0	2.0	0.2	0.2	0.2	0.2		2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	7.0		0.2	0.2	0.25	0.25	0.25	0.25	0.70 0.25	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	c0.0
180-47623-1 180-46327-1 180-49103-1	180-43571-1	180-48521-1	180-41900-1	180-47804-1	180-51962-1	180-54935-1	180-52551-1	180-5/485-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180 5843-1	180-53132-1	180-59192-1	180-65701-1	180-68952-1	180-66652-1	180-64611-1	180-69205-1	180-68914-1	180-70330-1	180-69233-1	180-70394-1	180-65525-1	180 64708-1	180-68834-1	180-70519-1	180-45020-1	180-48171-1	180-58745-1	180-56014-1	180-58/34-1	180-69241-1	180-68774-1	180-43316-1	180-47867-1	180-43113-1	180-42428-1	180-44137-1	180-44037-1	180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-48521-1
1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1.4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dictiolobenzene	1,4-Dichlorobenzene	1 4-Dichlorobenzene	2 4 5-Trichlorophenol	2,4,5-Trichlorophenol	2.4.5-Trichlorophenol	2,4,5-Trichlorophenol	Z,4,5-1 richlorophenol																																		
PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge	Dumpster	PWS Dumpster Studge	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Studge	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Studge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	PWS Dumpster Studge	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Studge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge

Tulsa 2015 Wichita 2015 Wichita 2015 Archdale 2016 Chandler 2016 Chandler 2016 Clackamas 2016 Raleigh 2016 Salt Lake City 2016 Wichita 2017 Wichita 2017 Wichita 2017 Chandler 2017 Chandler 2017 Bismarck 2017 Chandler 2017 Chandler 2017 Chandler 2017 Tulsa 2017 Tulsa 2017 Tulsa 2017 Salt Lake City 2017 Tulsa 2017 Chandler 2016 Xi. Pauls 2017 St. Pauls 2017 St. Pauls 2017 Chandler 2016 Chandler 2016 Chandler 2016 St. Pauls 2017 St. Pauls 2017 Chandler 2016 Chandler 2016 Chandler 2016 Chandler 2015 Salt Lake City 2015 Tulsa 2015 Tulsa 2015	Ľ.
35	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.05
7/50 7/50 7/50 7/50 7/50 7/50 7/50 7/50	mg/L mg/L
0.025 0.025	0.025
0.000000000000000000000000000000000000	0.05
180-44554-1 180-41900-1 180-51962-1 180-52935-1 180-52551-1 180-52682-1 180-5882-1 180-5882-1 180-588492-1 180-58143-1 180-58143-1 180-58143-1 180-682113-1 180-68211-1 180-682113-1 180-68211-1 180-43113-1 180-43113-1 180-44137-1 180-44037-1	180-51962-1
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol 2,4,6-Trichlorophenol
	PWS Dumpster Sludge PWS Dumpster Sludge

2016 2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2016 2016 2016 2016
Archdale Boise Chandler Clackamas Farmington Omaha Raleigh Sacramento Satt Lake City Tampa Wichita Archdale Bismarck Boise Chandler Clackamas Farmington Grand Island Omaha Raleigh Satt Lake City Tulsa Wichita Sacramento Oklahoma City St Pauls Tulsa Abbuquerque St Pauls Wichita Charlotte Clackamas Archdale Bismarck Boise Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte St Pauls Wichita Charlotte Charlotte Charlotte St Pauls St Pauls Wichita Charlotte Charlotte Charlotte St Pauls St Pauls St Pauls Wichita Charlotte Charlotte Charlotte Charlotte Charlotte Salt Lake City Tulsa Wichita	Farmington Archdale Boise Chandler Clackamas
20	
32	
60.0 60.0	0.05 0.05 0.05 0.05 0.05
	mg/L mg/L mg/L mg/L
0.025 0.025	0.025 0.025 0.025 0.025 0.025
0.05 0.05	0.05 0.05 0.05 0.05 0.05
180-54935-1 180-54935-1 180-5551-1 180-5683-1 180-5683-1 180-58492-1 180-58492-1 180-58492-1 180-58143-1 180-6852-1 180-6852-1 180-6852-1 180-6852-1 180-6852-1 180-6834-1 180-6834-1 180-6834-1 180-692416-1 180-692416-1 180-692416-1 180-692416-1 180-69241-1 180-692416-1 180-692416-1 180-692416-1 180-69241-1 180-692416-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-44137-1 180-44137-1 180-46327-1 180-44521-1	180-47804-1 180-51962-1 180-54935-1 180-52551-1 180-58682-1
2,4,6-Trichlorophenol 2,4-6-Trichlorophenol 2,4,6-Trichlorophenol	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene
Dumpster Dum	PWS Dumpster Sludge

	O O O O O
	2016 2016 2016 2016 2016
Farmington Omaha Raleigh Sacramento Salt Lake City Tampa Wichita Archdale Bismarck Boise Chandler Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Tulsa Wichita Sacramento Oklahoma City St Pauls Wichita Charlotte Clackamas Archdale Bismarck Boise Charlotte Clackamas Archdale Bismarck Boise Charlotte Clackamas Archdale Bismarck Boise Charlotte Boise Charlotte Charlotte Clackamas Archdale Boise Charlotte	Farmington Raleigh Sacramento Salt Lake City Tampa
51	
33	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.05 0.05 0.05 0.05
	
7.66 7.66 7.66 7.66 7.66 7.66 7.66 7.66	mg/L mg/L mg/L mg/L
0.025 0.025	0.025 0.025 0.025 0.025
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.05 0.05 0.05 0.05
180-56683-1 180-57965-1 180-53845-1 180-53132-1 180-65132-1 180-69192-1 180-69192-1 180-69205-1 180-69205-1 180-69205-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-48103-1 180-47867-1 180-47867-1 180-44037-1 180-453-1 180-453-1 180-453-1 180-453-1	180-56683-1 180-58492-1 180-58609-1 180-53845-1 180-58143-1
2,4-Dinitrotoluene 2,4-Dinitroto	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol
Dumpster	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

2016 2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2016 2016
Wichita Wichita Archdale Bismarck Boise Chandler Clackamas Clackamas Farmington Grand Island Omaha Raleigh Sat Lake City Tulsa Wichita Omaha Charlotte Clackamas Oklahoma City St Pauls Tulsa Albuquerque St. Pauls Tulsa Archdale Bismarck Boise Charlotte Clackamas Grand Island Chandler Bismarck Boise Charlotte Clackamas Grand Island Omaha Raleigh Sacramento Saft Lake City Tulsa Wichita Famington Archdale Boise Charlotte Clackamas	Farmington Omaha Raleigh Sacramento
$\vec{\omega}$	
32	
600.000.000.000.000.000.000.000.000.000	0.5 0.5 0.5 0.5
	
7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u	mg/L mg/L mg/L
0.025 0.025	0.25 0.25 0.25 0.25
	0 0 0 0 5 5 5 6
180-53132-1 180-69192-1 180-68952-1 180-68952-1 180-68952-1 180-68914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6925-1 180-4037-1 180-4037-1 180-4554-1 180-4554-1 180-51962-1 180-54935-1	180-56683-1 180-57965-1 180-58492-1 180-58609-1
2-Methylphenol 2-Meth	Arsenic Arsenic Arsenic Arsenic
PWS Dumpster Sludge	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2016 2017 2017
Salt Lake City Tampa Wichita Wichita Wichita Archdale Boise Chandler Clackamas Famington Omaha Raleigh Salt Lake City St Pauls Albuquerque St. Pauls Tulsa Albuquerque St. Pauls Sacramento Boise Tulsa Albuquerque St. Pauls St Pauls Tulsa Albuquerque St Pauls Albuquerque St Pauls St Pauls St Pauls St Pauls St Pauls Albuquerque St Pauls St Pauls Albuquerque St Pauls Albuquerque St Pauls Alb	Archdale Omaha Grand Island
TG.	
35	
0.0000000000000000000000000000000000000	1000
	, B B
	mg/L mg/L mg/L
0.025 0.025 0.025 0.025 0.025 0.037 0.037 0.037 0.037 0.037 0.038	0.77 0.79 0.79
0.55 0.55	0.79
180-53845-1 180-58143-1 180-59192-1 180-65701-1 180-66652-1 180-69241-1	180-54935-1 180-69233-1 180-70330-1
Arsenic Arseni	Barium Barium Barium
PWS Dumpster Sludge	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

2010	2010	2015	2015	2016	200	7100	2015	2015	2016	2016	2016	2016	2010	2017	2017	2015	2016	2017	2015	2016	2016	2015	2015	2015	2015	2015	2015	2015	2015	2013	2013	2013	2013	2013	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2010	2016	2010	2013	2017	2017	2017	2017	2017
VAliabita	VVICILIA	Raleigh	Charlotte	Calt Lake City	Cart Earle Orly	rallilligion	Omaha	Wichita	Chandler	Farmington	Omaha	St Pauls	Michita	AVICIII A	Kaleigh	Chandler	Sacramento	Bismarck	Oklahoma City	Albuquerque	Tulsa	Archdale	Bismarck	Boise	Chandler	Charlotte	Clackamas	Grand Island	Cmana	Segment	Sacramento Salt Lake City	Tallabases	Tillsa	Wichita	Wichita	Farmington	Archdale	Boise	Chandler	Charlotte	Clackamas	Farmington	Omaha	Kaleigh	Sacramento	Sait Lake Oity	lampa	Wichita	Archdala	Rismarck	Boise	Chandler	Clackamas	Farmington
5																																																			51			
70																																																			32	1		
1 C	V ·	2	2	1 (7 (7	2	2	2	2	2	2 5	ر د	7 (2	2	2	2	20	20	20	0.2	0.2	0,2	0.2	0.2	0.2	0.2	0.2	7.0	2.0	7.0	7. C	2.0	2.0	. O	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	7.0	7.0	0.7 0.7	0.2	0.2	0.2	0.2
> -	ָ כ	<u>В</u>	8) <u>-</u>	۵ -	٦ .	ا د	JB	7	7	-	. –	o -	. د	n B	JB	7		⊃	⊃	⊃	⊃	⊃)	⊃	コ)))	> :))	o =	o =	> =) =) ⊃	n	n	⊃	⊃	⊃)	- :) :	> :	> :	o' =	> =	o =) <u>=</u>	> =) =) 그
i -	mg/L	mg/L	ma/l	1/60	11g/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/l	1/ou	11g/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg′′	mg/L	mg/L	mg/L	mg/L	ma/l
0 01	0.87	0.91	66 0	5	- ,	e-1	Ę	_	Υ.	4	· ·	Ţ		2	1.2	4.1	1.5	3.4	10	10	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0	. c		- 1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	- C	- ·		. c	- C	. c
0 0	0.87	0.91	66 0	5, 4	- ,	_	1.7	1.	<u></u>	1.1	7			<u> </u>	1.2	4.	1.5	3.4	20	20	20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.0	7,0	. O C	2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.2	0.2) V (7.0	2.0	y c	0.0	
7 00701	180-59192-1	180-46327-1	180-44137-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-07-000-001	180-68914-1	180-47623-1	180-41900-1	180-57485-1	180-56683-1	180-57965-1	180 56014.1	1-00-001	180-68834-1	180-70394-1	180-42428-1	180-58609-1	180-68952-1	180-45020-1	180-58745-1	180-58734-1	180-43316-1	180-47867-1	180-43113-1	180-42428-1	180-44137-1	180-47746-1	180-44037-1	180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-48521-1	180-44554-1	180-41900-1	180-47062-1	180-54935-1	180-52551-1	180-57485-1	180-58404-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180-53845-1	180-58143-1	180-53132-1	180-59192-1	180-65/01-1	180-66652-1	190 64611 1	180-64011-1	180-68914-1
	Barium	Barium	Bariim	Calluli	Barlum 	Barıum	Barium	Barium	Barinm	Barinm	Baritm	Doring	Darluri 5 ·	Barium	Barium	Barium	Barium	Barium	Barinm	Barium	Barium	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Ponzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Benzene	Denzene	Benzene	Renzene						
Dalipsie	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpeter	Dalipsie	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpeter	Duripster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge			PWS Dumpster Sludge		PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PVVS Duripster Studge	Dumpster	Dumpster	Dumpster	Dumpster		PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster		Dumpster	PWS Dumpster Studge							

ity	Clackamas 2016 Clackamas 2016 Omaha 2017 Tampa 2016 Salt Lake City 2017 Chandler 2015 Farmington 2017 Sacramento 2017
	32
0.22 0.22 0.22 0.23 0.23 0.23 0.23 0.23	0.55 0.55 0.55 0.55 0.55
* ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	-
7/50/7/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	mg/L mg/L mg/L mg/L mg/L
0.1 0.1 0.1 0.1 0.1 0.125 0.125 0.022 0.034 0.086 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.033 0.032 0.032 0.033 0.032 0.03	0.33 0.38 0.44 0.44 0.44 0.46
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0	0.33 0.36 0.38 0.44 0.44 0.46
180-70330-1 180-69241-1 180-69233-1 180-69241-1 180-69416-1 180-69416-1 180-6834-1 180-6834-1 180-68174-1 180-58734-1 180-58734-1 180-58734-1 180-58734-1 180-58734-1 180-58734-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-689241-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-69241-1 180-69241-1 180-69241-1 180-4037-1 180-69205-1 180-69205-1	180-58492-1 180-58682-1 180-69233-1 180-5525-1 180-68914-1 180-70519-1
Benzene Cadmium	Cadmium Cadmium Cadmium Cadmium Cadmium Cadmium
PWS Dumpster Sludge	Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster

2015 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2017 2016 2016 2017 2017 2018 2018 2018 2019 2010 2010 2010 2010 2010 2010 2010	2017 2017 2017
Chandler Sacramento Wichita Charlotte Wichita Omaha Tulsa Wichita Omaha Archdale Bismarck Boise Charlotte Clackamas Grand Island Omaha Raleigh Sacramento Salt Lake City Archdale Bismarck Boise Charlotte Clackamas Grand Island Omaha Raleigh Sacramento Salt Lake City Tallahassee Tulsa Wichita Clackamas Farmington Omaha Raleigh Sacramento Salt Lake City Tampa Wichita Wichita Charlotte Clackamas Farmington Omaha Raleigh Omaha Raleigh Omaha Raleigh Omaha Raleigh	Wichita Wichita Sacramento
5	
8	
	0.2 0.2 0.2
m 5222222222222222222222222222222222222	5
7/56 E E E E E E E E E E E E E E E E E E E	mg/L mg/L mg/L
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.00 1.1.1.
0.55 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.2
180-57485-1 180-49103-1 180-49103-1 180-44137-1 180-4160-1 180-69416-1 180-69416-1 180-53845-1 180-44037-1 180-44037-1 180-44554-1 180-44554-1 180-44037-1 180-44554-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-54935-1 180-56833-1 180-56833-1 180-588492-1 180-58492-1 180-58492-1 180-68914-1 180-69192-1 180-69192-1 180-69192-1 180-69192-1 180-69192-1 180-69193-1 180-69193-1	180-64798-1 180-68834-1 180-70519-1
Cadmium Carbon Tetrachloride	Carbon tetrachloride Carbon tetrachloride Carbon tetrachloride
PWS Dumpster Sludge	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

Oklahoma City 2015 St Pauls 2015 Albuquerque 2016 St. Pauls 2016 Tulsa 2016 Albuquerque 2017 Oklahoma City 2017 St Pauls 2017 Archdale 2015 Bismarck 2015	ω P Q Ž φ	Wichita 2015 Wichita 2015 Farmington 2015 Archdale 2016 Boise 2016 Chardler 2016 Chardler 2016 Clackamas 2016 Farmington 2016 Raleigh 2016 Sacramento 2016 Satt Lake City 2016 Tampa 2016 Wichita 2017 Bismarck 2017	Chandler Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Tulsa Wichita Wichita Sacramento Oklahoma City St Pauls Albuquerque St. Pauls
		6	70
0.25 0.25 0.25 0.25 0.25 0.25 0.25	, a a a a a a a a a a a a a a a a a a a	000000000000000000000000000000000000000	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
7,50m 1,00m	7/5/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7	7,50 1,00	7,6 7,6 7,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1
0.125 0.125 0.125 0.125 0.125 0.125	200000000000000000000000000000000000000		0.125 0.125 0.125 0.125 0.125
0.25 0.25 0.25 0.25 0.25 0.25	, , , , , , , , , , , , , , , , , , ,	100000000000000000000000000000000000000	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
180-45020-1 180-48171-1 180-58745-1 180-58734-1 180-69241-1 180-68774-1 180-43316-1	180-4/86/-1 180-43113-1 180-42428-1 180-44137-1 180-47623-1 180-46327-1 180-49103-1 180-4551-1	180-41900-1 180-47804-1 180-54935-1 180-57485-1 180-58404-1 180-58682-1 180-58682-1 180-58682-1 180-58492-1 180-58492-1 180-58443-1 180-58132-1 180-53132-1 180-65192-1	180-5652-1 180-5652-1 180-69205-1 180-6914-1 180-69233-1 180-69416-1 180-69416-1 180-64798-1 180-64798-1 180-64798-1 180-68834-1 180-68834-1 180-58745-1 180-58745-1
Carbon Tetrachloride	Chlorobenzene	Chlorobenzene	Chlorobenzene
Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge

2016 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	
Tulsa Albuquerque Oklahoma City St Pauls Archdale Bismarck Boise Chardler Chardler Chardler Chardler Chardler Sacramento Sat Lake City Tallahassee Tulsa Wichita Wichita Farmington Archdale Boise Chandler	Chandler Charlotte Clackamas Farmington Omaha Raleigh Sacramento Salt Lake City Tampa Wichita Wichita Wichita Archdale Bismarck Boise Chandler Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Tulsa Wichita Sacramento Okahita Wichita Sacramento Okahita Sarcamento Okahita Sarcamento Okahita Sarramento Okahoma City St Pauls Tulsa Albuquerque St. Pauls Tulsa Albuquerque St. Pauls
	32 51
000000000000000000000000000000000000000	200000000000000000000000000000000000000
	1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6
0.125 0.125	000000000000000000000000000000000000000
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	000000000000000000000000000000000000000
180-58734-1 180-69241-1 180-69241-1 180-68774-1 180-47316-1 180-47137-1 180-44037-1 180-44037-1 180-4554-1 180-4554-1 180-4554-1 180-4554-1 180-52935-1 180-54935-1	180-57485-1 180-58682-1 180-58682-1 180-58682-1 180-58683-1 180-58492-1 180-58143-1 180-59192-1 180-65701-1 180-65701-1 180-68914-1 180-68914-1 180-68914-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69203-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-6834-1 180-6834-1
Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chloroform	Chloroform
Dumpster	Dumpster

2015 2017 2017 2015	
Boise Farmington Chandler Farmington Salt Lake City Tulsa Wichita Farmington Sacramento Chandler Tallahassee Wichita Boise Salt Lake City Archdale Salt Lake City Archdale Charlotte Wichita Bismarck Chandler Omaha Sacramento Archdale Tulsa Sacramento Wichita Bismarck Chandler Omaha Clackamas Strand Island Boise Albuquerque Archdale Tulsa St Pauls Oklahoma City Wichita Omaha St Pauls Oklahoma City Nichita Omaha St Pauls Oklahoma City Raleigh St Pauls Oklahoma City Raleigh St Pauls Oklahoma City Raleigh St Pauls	Oxionita Vichita Tulsa St Pauls St. Pauls Oklahoma City
Zo .	
32	
-), O, C - C - C
7/5cm 1/5cm	mg/L Degrees F Degrees F Degrees F Degrees F
0.01 0.012 0.013 0.014 0.015 0.015 0.015 0.016 0.022 0.023 0.038	0.95 0.95 162 153 153
0.012 0.013 0.014 0.015 0.015 0.016 0.022 0.038 0.038 0.038 0.038 0.038 0.038 0.044 0.038 0.038 0.038 0.038 0.038 0.044 0.054 0.054 0.058 0.058 0.058 0.058 0.058	0.64 0.95 162 157 153
180-66652-1 180-64611-1 180-68914-1 180-68914-1 180-4554-1 180-4554-1 180-45609-1 180-58609-1 180-58609-1 180-58404-1 180-5844-1 180-5844-1 180-5844-1 180-5844-1 180-58143-1 180-58143-1 180-58143-1 180-69213-1 180-69213-1 180-69223-1 180-69223-1 180-69233-1 180-69213-1 180-58682-1 180-6926-1 180-69241-1 180-58734-1 180-69241-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1 180-68774-1	180-53132-1 180-53734-1 180-68774-1 180-69241-1
Chromium	Chromium Chromium Flash Point Flash Point Flash Point
Dumpster Dum	PWS Dumpster Sludge

2015 2016 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2016 2015 2015 2015 2015 2015 2015 2015 2015
St Pauls Albuquerque Albuquerque Oklahoma City Archdale Bismarck Boise Chandler	Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Tulsa Wichita Wichita Sacramento Archdale Bismarck Boise	Chandler Charlotte Clackamas Grand Island Omaha Raleigh Sacramento Satt Lake City Tallahassee Tulsa Wichita Wichita Parmington Archdale Boise Charlotte Clackamas	Farmington Omaha Raleigh Sacramento Salt Lake City Tampa Wichita Wichita Wichita Bismarck Archdale Bismarck Chandler Chandler Chandler Grand Island Omaha
	26	2	
		33	
			550 0.05 0.05 0.05 0.05 0.05 0.05
			ככככככר
Degrees F	Degrees F	Degrees F	Degrees F Mg/Kg Mg/L Mg/L Mg/L Mg/L Mg/L Mg/L Mg/L Mg/
151 150 150 149 >140 >140	7	0	>140 >140 >140 >140 >140 >140 >140 >140
151 150 150 149 >140 >140	V V V V V V V V V V V V V V V V V V V	64	230 230 240 230 230 230 230 230 230 230 230 230 23
180-48171-1 180-58745-1 180-70384-1 180-65701-1 180-68952-1 180-66652-1 180-64611-1	180-69205-1 180-68914-1 180-70330-1 180-69233-1 180-65525-1 180-69416-1 180-64798-1 180-68834-1 180-43316-1 180-43316-1	180-42428-1 180-44137-1 180-44037-1 180-46327-1 180-49103-1 180-49103-1 180-49103-1 180-49541-1 180-44554-1 180-41900-1 180-51962-1 180-52551-1 180-52551-1 180-558682-1	180-56683-1 180-57965-1 180-58492-1 180-5845-1 180-53845-1 180-53132-1 180-59192-1 180-47867-1 180-47867-1 180-43113-1 180-44137-1 180-44037-1
Flash Point	Flash Point	Flash Point	Flash Point Halogens, Extractable Organic Hexachlorobenzene
PWS Dumpster Sludge PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	Dumpster

2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
Raleigh Sacramento Satt Lake City Tallahassee Tulsa Wichita Wichita Archdale Boise Chandler Clackamas Farmington Omaha Raleigh Sacramento Satt Lake City Tampa Wichita Archdale Bismarck Boise Chandler Clackamas Farmington Grand Island Omaha Raleigh Satt Lake City Tulsa Wichita Sacramento Oklahoma City St Pauls Albuquerque St. Pauls	Oklahoma City St Pauls Wichita Charlotte Clackamas Archdale Bismarck Boise Chandler Charlotte Grand Island Omaha Raleigh Sacramento Satt Lake City Tallahassee
75	
32	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.13 0.13 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0
7,564 1,264 1,	7/5 2/5 3/5 1/5 2/7/5 2/
0.025 0.025	0.065 0.065 0.25 0.3 0.025 0.025 0.025 0.025 0.025 0.025 0.025
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.13 0.13 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0
180-46327-1 180-49103-1 180-48571-1 180-44554-1 180-47804-1 180-51962-1 180-51962-1 180-52551-1 180-52683-1 180-58692-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-6852-1 180-68914-1 180-68914-1 180-68914-1 180-68914-1 180-69205-1 180-69203-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-6933-1 180-69416-1 180-58745-1 180-58745-1	180-69241-1 180-68774-1 180-58404-1 180-47746-1 180-43316-1 180-43316-1 180-42428-1 180-44137-1 180-44037-1 180-49103-1 180-48521-1
Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobutadiene
PWS Dumpster Sludge	Dumpster

L we off the lift of the lift	Wichita 2015 Wichita 2015 Farmington 2015
32	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.05 0.05 0.05
*)
7/5u 2/7/5u 2/7/	mg/L mg/L mg/L
0.025 0.025	0.025 0.025 0.025
50.0 50.0	0.05 0.05 0.05
180-44554-1 180-44554-1 180-51962-1 180-54935-1 180-52551-1 180-58682-1 180-58682-1 180-58682-1 180-58683-1 180-58683-1 180-58143-1 180-58143-1 180-695101-1 180-695101-1 180-695101-1 180-695101-1 180-695101-1 180-695101-1 180-6952-1 180-695101-1 180-69533-1 180-695101-1 180-695101-1 180-695101-1 180-695101-1 180-69511-1 180-695101-1 180-695101-1 180-69711-1 180-69711-1 180-69711-1 180-69711-1 180-69711-1 180-69711-1 180-69711-1 180-69711-1 180-47746-1 180-47137-1 180-44037-1 180-44037-1 180-44037-1 180-44037-1	180-41900-1 180-47804-1 180-51962-1
Hexachlorobutadiene Hexachloroethane	Hexachloroethane Hexachloroethane Hexachloroethane
PWS Dumpster Sludge	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

Archdale 2016 Boise 2016 Clackamas 2016 Raleigh 2016 Sarcamento 2016 Satt Lake City 2016 Archdale 2017 Bismarck 2017 Clackamas 2017 Clackamas 2017 Clackamas 2017 Chandler 2016 St. Pauls 2017 Charlotte 2016 Clackamas 2015 Raleigh 2017 Chandler 2016 Clackamas 2015 Raleigh 2015 Chandler 2016 Satt Lake City 2015 Charlotte 2016 Satt Lake City 2015 Charlotte 2016 Satt Lake City 2015 Charlotte 2016 Satramento 2015 Boise 2015 Raleigh 2017 Tallahassee 2015 Sacramento 2015 Boise 2017 Roise 2017 Roise 2017 Roise 2017	City
32	
60.0 60.0	0.55
	,
7 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mg/L mg/L mg/L
0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.025	0.27 0.33 0.35
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.27 0.33 0.35
180-54935-1 180-52551-1 180-5682-1 180-5683-1 180-5683-1 180-58492-1 180-58492-1 180-58143-1 180-58143-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69213-1 180-69211-1	180-44137-1 180-69416-1 180-45020-1
Hexachloroethane Hexach	Lead Lead Lead
Dumpster	PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge PWS Dumpster Sludge

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	တ တ တ
	2016 2016 2016
St Pauls Wichita Chandler Wichita Chandler Wichita Farmington Raleigh Clackamas Grand Island St Pauls Albuquerque Wichita Clackamas Tampa Oklahoma City Clackamas Tampa Oklahoma City Clackamas Clackamas Tampa Omaha Omaha Salt Lake City Omaha Omaha Sarcamento Omaha Clackamas Clackamas Clackamas Clackamas Chandler Sacramento Omaha Clackamas Chandler Sacramento Archdale Boise Wichita Omaha Clackamas Chandler Sacramento Archdale Boise Charlotte Grand Island Raleigh Sacramento Tallahassee Tulsa Farmington Archdale Clackamas Charlotte Clackamas Farmington Archdale Clackamas	Raleigh Sacramento Wichita
20	
35	
0.0002 0.	0.0002 0.0002 0.0002
	222
7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5	mg/L mg/L mg/L
0.35 0.38 0.39 0.42 0.44 0.45 0.45 0.45 0.65 0.65 0.65 0.65 0.000 0.000	0.0001 0.0001 0.0001
0.35 0.38 0.39 0.45 0.45 0.45 0.45 0.45 0.49 0.55 0.05 0.05 0.00005 0.00005 0.00002	0.0002 0.0002 0.0002
180-48171-1 180-59192-1 180-64798-1 180-64798-1 180-56683-1 180-68277-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-58682-1 180-58682-1 180-5965-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1	180-58492-1 180-58609-1 180-53132-1
Lead Lead Lead Lead Lead Lead Lead Lead	Mercury Mercury Mercury
PWS Dumpster Sludge	Dumpster Dumpster Dumpster

2017 2017 2017 2017 2017 2017 2016 2017 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2016 2016 2016
Archdale Clackamas Farmington Grand Island Raleigh Salt Lake City Tulsa Wichita Chandler Bismarck Salt Lake City Omaha Wichita Chandler Bismarck Salt Lake City Wichita Chandler Bismarck Salt Lake City Wichita Chandler Bismarck Salt Lake City Wichita St Pauls Albuquerque Chandler Chandler Chandler Clackamas Grand Island Omaha Raleigh Sacramento	Tulsa Wichita Wichita Archdale Boise Chandler
15	
83	
0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0033 0.0030 0.0033 0.0033 0.0033 0.0030 0.	000000
	22222
7/5	mg/L mg/L mg/L mg/L mg/L
0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0002 0.0002 0.00035 0.00035 0.00035 0.00046 0.00046 0.00046 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.00000
0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0003 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0003 0.003 0.033 0.033 0.033 0.033 0.02 0.02	1222222
180-65701-1 180-68914-1 180-68914-1 180-70330-1 180-69416-1 180-69416-1 180-69416-1 180-64738-1 180-43571-1 180-43310-1 180-6852-1 180-47867-1 180-68952-1 180-68952-1 180-68952-1 180-68952-1 180-68952-1 180-68952-1 180-68952-1 180-69241-1 180-6923-1 180-6923-1 180-6923-1 180-6923-1 180-6933-1 180-6933-1 180-4738-1 180-4738-1 180-4738-1 180-473113-1 180-44137-1 180-44037-1	180-44554-1 180-44554-1 180-47804-1 180-54935-1 180-52551-1
Mercury Mercur	
PWS Dumpster Sludge	Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster

2016 2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	
Charlotte Clackamas Farmington Omaha Raleigh Sacramento Salt Lake City Tampa Wichita Wichita Wichita Albuquerque St Pauls Oklahoma City Albuquerque Farmington Chandler Clackamas Salt Lake City Tulsa Oklahoma City Salt Lake City Tallahassee St Pauls St Pauls St Pauls St Pauls Chandler Clackamas Farmington Omaha Raleigh Sacramento Tampa Wichita Archdale Bismarck Boise Chandler Clackamas Farmington Omaha Raleigh Sacramento Tampa Wichita Archdale Bismarck Boise Chandler Clackamas	Grand Island Omaha Raleigh Salt Lake City Wichita Sacramento
15	
35	
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0	0.05 0.05 0.05 0.05 0.05
)
7,500 1,	mg/L mg/L mg/L mg/L
0.11 0.11 0.11 0.11 0.12 0.125 0.125 0.025	0.025 0.025 0.025 0.025 0.025 0.025
0.22 0.25 0.25 0.25 0.25 0.25 0.05 0.05	0.05 0.05 0.05 0.05 0.05
180-58404-1 180-58682-1 180-56683-1 180-57965-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58143-1 180-68143-1 180-6814-1 180-68241-1 180-68241-1 180-68241-1 180-68241-1 180-68241-1 180-68241-1 180-68241-1 180-48171-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-58682-1 180-58682-1 180-58682-1 180-58682-1 180-58682-1 180-58691-1 180-58652-1 180-58652-1 180-68521-1 180-68521-1 180-68521-1 180-68652-1 180-68652-1	180-70514-1 180-70513-1 180-6525-1 180-65525-1 180-65514-1
Methyl Ethyl Ketone Methyl Ethyl Xetone Methyl Ethyl Xetone Methyl Ethyl Xetone Methylphenol, 3 & 4 Methyl	ठ ० ठ ० ठ ० ठ ० ठ
Oumpster Soumpster Soumpst	PWS Dumpster Sludge

2017	2015	0.00	71.07	2016	2016	2015	2015	2016	2016	2016	2017	2017	2017	2015	2016	2016	2015	2016	2015	2015	2015	2015	2015	2015	2015	2015	2015	2013	2013	2013	2013	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2010	2017	2017	2017	2017	2017	2017	2017
Tulsa	Riemarck	Minhion	Wichita	Charlotte	Archdale	Oklahoma City	St Pauls	Albuquerque	St. Pauls	Tulsa	Albuquerque	Oklahoma City	St Pauls	Farmington	Boise	Wichita	Wichita	Sait Lake City	Clackamas	Archdale	Bismarck	Boise	Chandler	Charlotte	Grand Island	Omaha	Kaleigh	Sacramento	Salt Lake City	Tilloo	LUISA Wichita	Wichita	Farmington	Archdale	Boise	Chandler	Clackamas	Farmington	Omaha	Kaleigh	Sacramento	Salt Lake City	lampa	Wichita	VVICNITA	Riemarch	Boise	Chandler	Clackamas	Farminaton	Grand Island	Omaha
5																																																	51	•		
70																																																	32			
0.05	30.0	50.0	0.5	9'0	0.05	•				•	•	•	-	0.05	0.05	0.05	0.05	0.25	_	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.00	0.00 50.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.05	0.05	0.05	0.05
		:))		⊃)	⊃	⊃	⊃	⊃	⊃	כ							⊃	コ	⊃	⊃	*	⊃	⊃	* ⊃ :	>	* :	o	, o =	o :	> <u>*</u>	· =	, ⊃	*	* ^	⊃	⊃	* 	*)) :	⊃:	⊃:)) =	o =	0 =	> =) ⊃))
1]/08	18/6	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	ma/L	mg/L
0.054	40.00	5.78	0.25	0.3	0.42	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.55	0,62	0.98	0.99	3.4	4.4	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0.054	40.0	0.18	0.5	9.0	0.42	-	-	_	_		_	~		0.55	0.62	0.98	66.0	3.4	4.4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	CO:O	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.03	0.05	0.05
180 60416 1	100-09410-1	180-4/86/-1	180-64798-1	180-58404-1	180-54935-1	180-45020-1	180-48171-1	180-58745-1	180-56014-1	180-58734-1	180-70384-1	180-69241-1	180-68774-1	180-51962-1	180-52551-1	180-53132-1	180-41900-1	180-53845-1	180-47746-1	180-43316-1	180-47867-1	180-43113-1	180-42428-1	180-44137-1	180-44037-1	180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-48521-1	180-44554-1	180-41900-1	180-47804-1	180-51962-1	180-52551-1	180-57485-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180-53845-1	180-58143-1	180-53132-1	180-59192-1	180-65701-1	180-68952-1	180-0002-1	180-64611-1	100-09203-1	180-06914-1	180-69233-1
5 0	ა გ	უ	Methylphenol, 3 & 4	<u>ر</u>	(7)	· ර ෆ	n	ധ	Methylphenol, 3 & 4	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene										
Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	Dumpster		Dumpster	Dumpster	PWS Dumpster Studge		Dumpster		Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Studge PWS Dumpster Studge																

2017 2017 2017 2017 2017 2016 2015 2016 2016 2016 2015 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2017 2017 2017
Raleigh Salt Lake City Tulsa Wichita Sacramento Wichita Charlotte Clackamas Charlotte Clackamas Oklahoma City St Pauls Tulsa Albuquerque St. Pauls Tulsa Albuquerque St. Pauls St Pauls St Pauls St Pauls Albuquerque St. Pauls St Pauls St Pauls St Pauls Chandler Salt Lake City Tulsa Wichita Wichita Wichita Parmington Archdale Boise Chandler Clackamas Farmington Omaha Raleigh Sacramento Salt Lake City Tulsa Wichita Wichita Raleigh Sacramento Chandler Clackamas Farmington Omaha	_
	32 51
0.05 0.05 0.05 0.05 0.05 0.05 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13	0.25 0.25 0.25 0.25 0.25 0.25
7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 7/5u	7/6w w8/r w8/r w8/r w8/r
0.025 0.025	0.125 0.125 0.125 0.125 0.125 0.125 0.125
0.05 0.05 0.05 0.05 0.05 0.05 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25
180-70394-1 180-65525-1 180-68834-1 180-68834-1 180-64798-1 180-58404-1 180-48171-1 180-5874-1 180-5874-1 180-5874-1 180-5874-1 180-5874-1 180-5874-1 180-5874-1 180-5874-1 180-43316-1 180-43316-1 180-43316-1 180-43311-1 180-43311-1 180-4351-1 180-4351-1 180-4351-1 180-4351-1 180-4351-1 180-4351-1 180-5561-1 180-5561-1	180-58609-1 180-53845-1 180-53132-1 180-59192-1 180-65701-1 180-6652-1 180-64611-1
Nitrobenzene Nitro	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol
Dumpster Dum	PWS Dumpster Sludge

2017 2017 2017 2017 2017 2017 2017 2017	2015 2016 2016 2016 2016 2016 2016 2016 2016	2017
Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Tulsa Wichita Sacramento	Charlotte Clackamas Wichita Charlotte Clackamas Albuquerque Boise Tallahassee Raleigh Sacramento Farmington Omaha Raleigh Wichita Archdale Bismarck Omaha Tulsa Clackamas St Pauls Raleigh Archdale Boise Wichita Grand Island Sacramento Tulsa Chandler St Pauls Raleigh Archdale Boise Wichita Sacramento Tulsa Chandler Sat Lake City Chandler Sat Lake City Chandler Wichita Satt Lake City Chandler Wichita	Chandler
	Σ	
	32	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 2.5	ω α 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1
*		
	>> 분분분고고분 분분분분보고분 고분고분고고분 분분 고고분고고분고 고분분 고분	노
90/L 199/L 199/L 199/L 199/L 199/L		S
0.125 0.125 0.125 0.125 0.125 0.125 0.125 1.25	2.5 3.53 3.53 3.53 6.9 6.9 6.9 6.9 6.9 6.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.3
0.25 0.25 0.25 0.25 0.25 0.25 2.5	3.53 6.38 6.38 6.39 6.9 6.9 6.9 7.7 7.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.3
180-69205-1 180-68914-1 180-70330-1 180-69233-1 180-6525-1 180-69416-1 180-68834-1 180-64798-1	180-58404-1 180-53132-1 180-53132-1 180-5862-1 180-5862-1 180-58404-1 180-58143-1 180-58143-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-68214-1 180-6821-1	180-64611-1
Pentachlorophenol	Pentachorophenol Chorophenol PH PH P	퓝
PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster

Omaha 2015 Charlotte 2015 Glackamas 2015 Bismarck 2017 St. Pauls 2016 Boise 2016 Oklahoma City 2017 Archdale 2015 Bismarck 2015 Grand Island 2015 Charlotte 2015 Sacramento 2015 Archdale 2016 Charlotte 2016 Charlotte 2016 Salt Lake City 2016 Charlotte 2016 Salt Lake City 2016 Charlotte 2017 Boise 2017 Boise 2017 Charlotte 2017 Charlotte 2017 Charlotte 2017 Salt Lake City 2017 Tuisa 2017 Tuisa 2017 Vichita 2017 Salt Lake City 2017 Tuisa 2017 Vichita 2017 Charlotte 2017	e iit
20000000000000000000000000000000000000	ט ט ט ט ט ט
ェェ先先 エエココココココココココカカコココココココカカカカココココココココココココ	כככככ
7/5	7/6ш 7/6ш 7/6ш
8.41 8.43 8.43 8.44 8.49 8.77 8.67 8.77 8.77 8.77 8.77 8.77 9.24 10.5 0.05	225
8.8.8 8.49 7.7.8 8.7.7 7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	2 2 2 2 2 3 3 4 5 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6
180-47623-1 180-44137-1 180-68952-1 180-56014-1 180-55014-1 180-5551-1 180-43316-1 180-43137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-44137-1 180-45251-1 180-4525-1 180-4852-1 180-4852-1 180-5882-1 180-5882-1 180-5882-1 180-5882-1 180-5882-1 180-5882-1 180-5882-1 180-5883-1 180-5883-1 180-5883-1 180-68914-1	180-47746-1 180-45020-1 180-48171-1 180-58745-1
pH p	Pyridine Pyridine Pyridine Pyridine
PWS Dumpster Sludge PWS Du	Dumpster Dumpster Dumpster Dumpster Dumpster

2016 2017 2017 2017 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	
Tulsa Albuquerque Oklahoma City St Pauls Charlotte Sacramento Boise Grand Island Wichita Salt Lake City Bismarck Wichita Tallahassee Tulsa Salt Lake City Clackamas Clackamas Clackamas Tampa Boise Archdale Chandler Omaha Raleigh Tulsa Wichita Farmington Archdale Charlotte Farmington Archdale Charlotte Farmington Omaha Raleigh Sacramento Wichita Raleigh Sacramento Wichita	Boise Chandler Clackamas Farmington Grand Island Omaha Raleigh Salt Lake City Wichita Wichita Wichita Sacramento St Pauls St Pauls St Pauls St Pauls St Pauls St Pauls The Pauls Albuquerque St. Pauls Albuquerque St. Pauls Albuquerque Oklahoma City Albuquerque
ro F	
32	
	000000000000 0000000000000000000000000
7/6 2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2.5 2.5 2.5 2.5 2.0019 0.019 0.028 0.035 0	0.25 0.25 0.25 0.25 0.25 0.25 0.32 0.32 0.5 0.5
5 5 6 0.019 0.028 0.035	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
180-58734-1 180-69241-1 180-69241-1 180-44137-1 180-44137-1 180-43113-1 180-43113-1 180-47867-1 180-43571-1 180-43571-1 180-53132-1 180-53132-1 180-53132-1 180-53132-1 180-53132-1 180-53132-1 180-53132-1 180-52551-1 180-52551-1 180-4554-1 180-44554-1 180-44554-1 180-44554-1 180-54935-1 180-59835-1 180-59892-1 180-59892-1 180-59892-1	180-66652-1 180-64611-1 180-69205-1 180-69233-1 180-69233-1 180-69233-1 180-69233-1 180-65294-1 180-68834-1 180-68834-1 180-68834-1 180-68874-1 180-56014-1 180-56014-1 180-56014-1 180-5614-1
	mulium mulium mulium mulium mulium mulium mulium mulium mulium
Pyridine Pyridine Pyridine Selenium	Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium
PWS Dumpster Sludge	PWS Dumpster Sludge

2015 2015	2015	2015	2015	2015 2015	2015	2015	2015 2015	2013 2015	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017		2017		2017	2017	2017	2015	2016	2015	2016	
Chandler Archdale	Bismarck	Charlotte	Clackamas	Grand Island Oklahoma City	Omaha	Raleigh	Sacramento	Salt Lake Oity	Tallahassee	Tulsa	Wichita	Wichita	Parmington Albuquerano	Archdale	Boise	Chandler	Charlotte	Clackamas	Farmington	Omaha	Kaleigh	Sacramento	Salt Lake Oity	St. radis Tampa	Tulsa	Wichita	Wichita	Albuquerque	Archdale	Bismarck	Boise	Chandlel	Farmington	Grand Island	Oklahoma City	Omaha	Raleigh	Salt Lake City	ot Padis Tulea	Michita	Wichita	Sacramento	Wichita	Salt Lake City	Wichita	Omaha	
																									52	5																					
																									33	3																					
0.5 0.5	0.5	o o o	0.5	O O	0.5	0.5	0.5 5	0.5	0.00	0.5	0.5	0.5	0.5	o c		0,5	0.5	0.5	0.5	0.5	0.5	0.5	C. C.	ر د ر	. c	ى ئى تى	0.0	0.5	0.5	0.5	0.5	C C	0.00	0.5	0.5	0.5	0.5	O. 0 70. 1	O.0	0.0	0 C	0.5	0.5	0.2	0.2	0.2	
7 0	D :))	\cap	> =	o	U F1) :	> =	o =) ⊃	n)	⊃ :	o =	o =))	⊃	⊃	⊃	⊃ '	⊃:	⊃ :) :) =	o =	o =	> =) <u> </u>	\cap	⊃	> :	o :	> =) ⊃	_	D	⊃ '	⊃:	o :	o :	> =	> =	o -) ¬	, ¬	
mg/L mg/L	mg/L	mg/L ma/L	mg/L	mg/L	mg/L mg/L	mg/L	mg/L	mg/L	mg/L mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	7 /Su	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	ma/L	mg/L	
0.0035	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.75	0.25	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.20	0.25	0.033	0.042	0.07	
0.0035	0.5	0.0	0.5	0.5	0.5	0.5	0.5	O.5	O O	0.5	0.5	0.5	0.5	0.5	C - C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.0	C. C	0.0		0.0	0.5	0.5	0.5	0.5	C C	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ο u	0.0	0.033	0.00	0.07	
180-42428-1 180-43316-1	180-47867-1	180-43113-1	180-47746-1	180-44037-1	180-45020-1 180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-481/1-1	180-46521-1	180-41900-1	180-47804-1	180-51962-1	180-58745-1	180-54855-1	180-57485-1	180-58404-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180-53845-1	180-56014-1	180-58143-1	180-58734-1	180-53132-1	180-70384-1	180-65701-1	180-68952-1	180-66652-1	180-64611-1	180-69205-1	180-70330-1	180-69241-1	180-69233-1	180-70394-1	180-65525-1	180-68774-1	180-69416-1	180-64798-1	180-68834-1	180-70519-1	180-47804-1	180-33843-1	180-57965-1	
Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Vilver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Tetrachloroethene	Tetrachloroethene	Tetrachloroethene	
PWS Dumpster Sludge		PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge		Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dullipsiel Sludge	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Studge	Durnpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	Dumpster	

2015 2015 2015 2015 2015 2016 2016 2017 2017 2016 2017 2015 2015 2015 2015 2015 2015 2015 2015	2015 2015
Bismarck Saft Lake City Saft Lake City Chandler Sacramento Tulsa Chandler Tampa Wichita Chandler Farmington Raleigh Tulsa Wichita Charlotte Sacramento Archdale St. Pauls Albuquerque Albuquerque Oklahoma City St. Pauls St. Pauls St. Pauls St. Pauls Boise Omaha Archdale Charlotte Charlotte	Clackamas Grand Island
To the state of th	
33	
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.2
במבררה במברה ב	ככה
7/8c 1 / 2/8c 1 / 2/8	mg/L mg/L
0.076 0.083 0.087 0.087 0.087 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.03 0.03 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.05	20.0
0.076 0.083 0.086 0.087 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.2
180-51962-1 180-47867-1 180-65525-1 180-43571-1 180-43571-1 180-49103-1 180-5404-1 180-5809-1 180-58143-1 180-6814-1 180-68314-1 180-6814-1 180-6814-1 180-6814-1 180-6814-1 180-6814-1 180-6813-1 180-6813-1 180-6813-1 180-6822-1 180-6822-1 180-6822-1 180-6823-1 180-6823-1 180-6823-1 180-6823-1 180-6923-1 180-6923-1 180-6923-1 180-6923-1 180-69213-1 180-69213-1 180-69213-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1	180-44037-1
Tetrachloroethene	Trichloroethene
PWS Dumpster Sludge	PWS Dumpster Sludge PWS Dumpster Sludge

	2016 2017 2017 2015 2015 2015 2015
Raleigh Sacramento Salt Lake City Tallahassee Tulsa Wichita Wichita Farmington Archdale Boise Clackamas Farmington Omaha Raleigh Sacramento Satt Lake City Tampa Wichita Archdale Bismarck Boise Clackamas Farmington Omaha Raleigh Sacramento Omaha Raleigh Sacramento Satt Lake City Tulsa Wichita Archdale Bismarck Boise Clackamas Farmington Omaha Raleigh Satt Lake City Tulsa Wichita Nichita Omaha Raleigh Satt Lake City Tulsa Archdale Bismarck Boise Clackamas Farmington Omaha Raleigh Satt Lake City Tulsa Archdale Sacramento Omaha Raleigh Satt Pauls St. Pauls St. Pauls St. Pauls St. Pauls	Tulsa Albuquerque Oklahoma City St Pauls Archdale Bismarck Boise Chandler
12	
32	
0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03	0.0000 1.1.1.1.2.0000
	222222
7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u 7/6u	mg/L mg/L mg/L mg/L mg/L
0.00 0.00	0.05 0.05 0.05 0.05 0.1 0.1
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0000000000000000000000000000000000000
180-46327-1 180-49103-1 180-4551-1 180-4554-1 180-4554-1 180-57485-1 180-58404-1 180-58404-1 180-58409-1 180-58409-1 180-58409-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-58492-1 180-68914-1 180-69140-1 180-69214-1 180-69214-1 180-69214-1 180-69214-1 180-69214-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1 180-69241-1	180-58734-1 180-58734-1 180-69241-1 180-68774-1 180-43316-1 180-42428-1
Trichloroethene	Vinyl Chloride
PWS Dumpster Sludge	Dumpster Dumpster Dumpster Dumpster Dumpster Dumpster

10		10	10	ıc	10	10	10	10	ıc	ıc	ر د	(C	(C	(C	(C	(C)	(C)	(C	S	2	(C)	ധ	ഗ	က္	7	_	_	_	7	7	7	7	7	7	7	7	2	7	
2015	201	2015	2015	2015			201	2015	201	201	201	2016	2016	2016	2016	2016	2016	2016				2016	201	2016	201	201	201	201	201			201			201	201	201		
Charlotte	Clackamas	Grand Island	Omaha	Raleigh	Sacramento	Salt Lake City	Tallahassee	Tulsa	Wichita	Wichita	Farmington	Archdale	Boise	Chandler	Charlotte	Clackamas	Farmington	Omaha	Raleigh	Sacramento	Salt Lake City	Tampa	Wichita	Wichita	Archdale	Bismarck	Boise	Chandler	Clackamas	Farmington	Grand Island	Omaha	Raleigh	Salt Lake City	Tulsa	Wichita	Wichita	Sacramento	
																			21																				
																			32																				
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
n	⊃	*	D	⊃	⊃	D	⊃	⊃	⊃	⊃	D	D	⊃	⊃	D	⊃	⊃	ם	n	n	Ω	⊃	⊃	D	⊃	D	⊃	⊃	⊃	⊃	⊃	⊃	⊃	Ο	Ο	n	H	\supset	
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L)							
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0,1	0.1	0.1	0.1	0.1	0.1	0.1	0,1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	}
180-44137-1	180-47746-1	180-44037-1	180-47623-1	180-46327-1	180-49103-1	180-43571-1	180-48521-1	180-44554-1	180-41900-1	180-47804-1	180-51962-1	180-54935-1	180-52551-1	180-57485-1	180-58404-1	180-58682-1	180-56683-1	180-57965-1	180-58492-1	180-58609-1	180-53845-1	180-58143-1	180-53132-1	180-59192-1	180-65701-1	180-68952-1	180-66652-1	180-64611-1	180-69205-1	180-68914-1	180-70330-1	180-69233-1	180-70394-1	180-65525-1	180-69416-1	180-64798-1	180-68834-1	180-70519-1	
Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride								
PWS Dumpster Sludge	Dumpster	PWS Dumpster Sludge	Dumpster	Dumpster	Dumpster		Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	Dumpster	PWS Dumpster Sludge	PWS Dumpster Sludge	PWS Dumpster Sludge	Dumpster																							

PARAMETER LAB ID	RESULT	UNITS	QUALIFIER	RESULT UNITS QUALIFIER REPORTING LIMIT	FACILITY	YEA
2-Methylphenol Average	0.1845					
Arsenic Average	0.044667					
Barium Average	0.779375					
Benzene Average	2.2775					
Cadmium Average	0.392612		٠			
Chromium Average	0.088375					
Flash Point Average	153					
Halogens, Extractable Organic Average	230					
Lead Average	7.361896					
Mercury Average	0.00534					
Methyl Ethyl Ketone Average	2.681					
Methylphenol, 3 & 4 Average	1.1639					
pH Average	7.494314					
Selenium Average	0.084412					
Silver Average	0.0035					
Tetrachloroethene Average	184.3828					
Trichloroethene Average	1.2055					
Grand Average	25.72886					

																																												0								
YEAR	2008	2008	2008	2008	2008	2009	2009	2009	2009	2009	2009	2009	2009	2010	2010	2010	2011	2011	2011	2012	2012	2012	2013	2013	2013	2014	2014	2013	2013	2015	2016	2016	2016	2017	2017	2017	2017	2008	2002	2002	2000	2003	2013	2017	2014	2016	2010	2011	2008	2008	2008	7
FACILITY	Boise	Dodge City	Fargo	Salt Lake City	Wichita	Boise	Chandler	Clackamas	Dodge City	Oklahoma City	Salt Lake City	Santa Ana	Wichita	Boise	Clackamas	Salt Lake City	Boise	Chandler	Santa Ana	Boise	Sait Lake City	Sioux rails	Salt Lake City	I UISa	VVICNITA	Dodge City	Salt Lake City	Dolse	Criandler Solf Lake City	Farmington	Boise	Chandler	Omaha	Boise	Chandler	Farmington	Salt Lake City	Blaine	Blaine	Eagan	Eagali Wichita	Conto Ano	Sacramento	Boise	Farmington	Salt Lake City	Sacramento	Salt Lake City	Boise	Dodge City	Fargo Salt Lake City	כמון במוט כיין
VALUE COUNT																															32 50	3																				
REPORTING LIMIT Uth VALUE COUNT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.n 0.0	0.5	0.2	0.2	2.0	7.0	7.0	7.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.23	0.20	0.25	0.23	0.25	0.5	0.5	0.2	0.2	0.2	7.
QUALIFIER REPO	n	⊃		Э	ח	ח	⊃	n	⊃	ב כ	Þ	D	\supset) :))) :) :) :	o :	> :	⊃ :	o :	⊃ :	o :) :	o :	o :)) =) I	==	> =) D	n	ח	⊃ '	ɔ :) :	o :	> =	> =	o =	o =	o =	o 🗆	\supset	D	Ō	D	D :	ס
UNITS	mg/L	mg/L	ma/L	mg/L	mg/L "	mg/L	mg/L	mo/l	1,6H	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	7/6/L	mg/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L																							
RANKED DATA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	. c	- c		. c	0.1	0.1	0.1	0.1	0.125	0.125	0.125	0.125	0.125	0.125	0.120	0.125	0.125	0.25	0.25	0.1	0.1	0.0	- 5
RESULT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	7.0	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.40	0.75	0.25	0.5	0.5	0.2	0.2	0.2	7.0
LAB SAMPLE ID	C8E200313001	C8H200252001	C8F130326001	C8D030320001	C8H080290001	C9E090111001	C9E130321001	C9K120427001	C9H040289003	C9E210290002	C9D230261001	C9I170278001	C9H040288003	C0H100558001	C0L080465001	C0D220565001	180-2334-1	180-2452-1	180-2462-1	180-10005-1	180-10295-1	180-6080-1	180-20714-1	180-21899-1	180-23127-1	180-35833-1	180-32306-1	180-44034-1	180-43578-1	180-435/3-1	180-51900-1	180-52050-1	180-53880-1	180-67590-2	180-65572-1	180-68912-1	180-65524-1	C8H250147001	C8H250154001	C8J030260001	C8J030263001	C9F060175001	C01090490001	1-07-07-001	180-32876-1	180-53843-1	C0A200514001	180-604-11	C8E200313001	C8H200252001	C8F130326001	C&DU3U3ZUUUT
PARAMETER	I,1-Dichloroethene	1 1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1, 1-Dichloroethene	1, 1-Dichloroothene	r, r-Dichloroethene	1 1-Dichloroethene	1,1-Dichloroethene	1, 1-Dichloroetherie	1,1-Dichloroethene	1, 1-Dichloroethene	1,1 Dichloroethene	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane																															
MATRIX	PWS Tank Bottoms 1	Tank	PWS Tank Bottoms 1	PWS Tank Bottoms 1	PWS Tank Bottoms 1	Tank	PWS Tank Bottoms 1	PWS Tank Bottoms 1	PWS Tank Bottoms 1	Tank	Tank	Tank	PWS Tank Bottoms 1	Tank	Tank	Tank	Tank	PWS Tank Bottoms 1	PWS Tank Bottoms 1	Tank	PWS Tank Bottoms 1	PWS Tank Bottoms 1	Tank	PWS Tank Bottoms 1	Tank	PWS Tank Bottoms	PWS Tank Bottoms	DWS Tank Bottoms	PWS Tank Bottoms	PWS Tank Bottoms		Tank	Tank	PWS Tank Bottoms	Tank			lank	PWS Tank Bottoms	- ar	Tank Tank	PWS Lank Bottoms	PWS Tank Bottoms	PWS Tank Bottoms	PWS Tank Bottoms	PWS Tank Bottoms	PWS Tank Bottoms	PWS lank Bottoms				

PARAMETER	LAB_SAMPLE_ID RESULT	ULT UNITS	QUALIFIER REPORTING LIMIT FACILITY YEAR
1,4-Dichlorobenzene Average	0.3	0.305	
2,4,5-Trichlorophenol Average	0.0	0.24	
2,4-Dinitrotoluene Average	ò	49	
2-Methylphenol Average	0.00	0.00795	
Arsenic Average	0.01	0.019978	
Barium Average	06.0	0.906667	
Benzene Average	Ö	23	
Cadmium Average	0.65	0.654163	
Chromium Average	0.10	0.10829	
Flash Point Average	13	136.3	
Lead Average	3.18	3933	
Mercury Average	0.00	0.000819	
Methyl Ethyl Ketone Average	2.50	1034	
Methylphenol, 3 & 4 Average	0.61	0.611762	
Nitrobenzene Average	0.	26	
pH Average	7.5	7.552	
Selenium Average	0.04	4472	
Silver Average	0.0	0.0232	
Tetrachloroethene Average	206.	206.6897	
Trichloroethene Average	13.5	13.58982	
Grand Average	30.5	30.51264	

YEAR	2010	2015	2015	2015	20.15	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2013	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2010	2010	2010	2010	2016	2016	2016	2016	2016	2017	2017	2017	2017	7107
FACILITY	Archala	Archdale	Avon	Barre	Bolse	Charlet	Chesaneake	Chester	Cohoes	Grand Island	Kaukauna	Kaukauna	Lackawanna	Oklahoma City	Omaha	Raleigh	St Pauls	Syracuse	Tulsa	Waukesha	Waukesha	Waukesha	Wichita	Farmington	Sacramento	Albuquerane	Roise	Chandler	Charlotte	Chester	Clackamas	Farmington	Kaukauna	Kaukauna	Omaha	Tampa	l ulsa	VINTON	Waukesila	Waukesha	Waukesila Waikesha	Waukesha	Walikesha	Waukesha	Waukesha	Waukesha	Albuquerque	Archdale	Avon	Chandler	Chesapeake
COUNT																													49	2																82					
Ith VALUE																													.3	5																49					
REPORTING LIMIT Uth VALUE COUNT	0.23	0.25	0.25	0.25	0.25	0.25	0.75	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.75	0.25	0.23	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
QUALIFIER R	o :	>)) :) :	⊃:	o =	o =) <u>=</u>) =) ⊃	· ⊃	_	D	ם	⊃	n	⊃	D	⊃	⊃	⊃	⊃) :) :	> :	o =	> =	o =	> =) =) ⊃	· ⊃	⊃	∩	⊃ '	⊃:	> :	o :) <u> </u>)	o =	o =	o =) ⊃	n	ם	n	ם	ב כ	*
_{so}	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	⊓g/∟ ma/l	11g/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	11g/L	g/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RANKED DATA	0.115	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.123	0.123	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.123	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.123	0 125	0.125	0.125	0.125	0.125	0.125	0.125
7	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.20	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.70	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.23	0.23	0.23	0.25	0.25	0.25	0.25	0.25	0.25
AB SAMPLE ID	180-58611-1	180-42767-1	180-43688-1	180-48338-1	180-42965-1	180-43577-1	180-44139-1	180-48655-1	180-443/3-1	180-435/6-1	180-44225-1	180-43107-1	180-43631-1	180-45021-1	180-47626-1	180-46329-1	180-48172-1	180-43687-1	180-44558-1	180-48055-1	180-48056-1	180-48057-1	180-47813-1	180-51966-1	180-49236-1	180-51271-1	180-58744-1	180-52527-1	180-03494-1	180-58394-1	180-34771=1	180-56685-1	180-53961-1	180-53963-1	180-57964-1	180-58138-1	180-58732-1	180-58266-1	180-54672-1	180-54673-1	180-546/4-1	180-54675-1	100-040/0-1	180-54677-1	180-54679-1	180-54680-1	180-66650-1	180-65687-1	180-65693-1	180-64613-1	180-70321-1
	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	, I-Dichloroethene	1-Dichloroethene	, 1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	.1-Dichloroethene	,1-Dichloroethene	, I-Dichloroethene	, I-Dichloroethene	, 1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	1,1-Dichioroethene	i,1-Dichloroethene	I, I-Dichloroethene	1-Dichloroethene	I.1-Dichloroethene	1,1-Dichloroethene	I,1-Dichloroethene	I,1-Dichloroethene	1,1-Dichloroethene																	
MATRIX	Premium Solvent 1,	Premium Solvent 1,	_	Premium Solvent 1,	Premium Solvent 1,	Solvent 1		Solvent 1	Solvent	Solvent	Premium Solvent		Solvent	Solvent 1		Solvent 1		Solvent 1	Solvent 1		Premium Solvent 1		Premium Solvent 1	Premium Solvent 1		Premium Solvent	Premium Solvent	Premium Solvent 1		Premium Solvent 1		Premium Solvent 1	Premium Solvent 1		Premium Solvent	Premium Solvent 1	Premium Solvent		Premium Solvent 1		Premium Solvent 1	Solvent	Premium Solvent 1								

Clackamas 2017 Cohoes 2017 Grand Island 2017 Kaukauna 2017 Kaukauna 2017 Kaukauna 2017 Charekawanna 2017 St Pauls 2017 St Pauls 2017 Vinton 2017 Avon 2017 Cohoes 2017 Clackawanna 2017 Archdale 2017 Clackamas 2016 St. Pauls 2015 Kaukauna 2016 St. Pauls 2015 Charlotte 2015	>
0.25 0.25	0.25 0.055 0.025 0.025 0.025 0.025 0.025 0.025
7 7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7,64,7 1,06
0.125 0.	
180-69209-1 0.25 180-69208-1 0.25 180-68416-1 0.25 180-64751-1 0.25 180-64752-1 0.25 180-64753-1 0.25 180-69242-1 0.25 180-69242-1 0.25 180-69242-1 0.25 180-69242-1 0.25 180-69242-1 0.25 180-68919-1 0.25 180-68919-1 0.25 180-68919-1 0.25 180-68919-1 0.25 180-6989-1 0.25 180-6989-1 0.25 180-5986-1 0.25 180-5986-1 0.25 180-5986-1 0.25 180-5533-1 0.25 180-47764-1 0.25 180-42965-1 0.25 180-43688-1 0.25 180-43688-1 0.25 180-43688-1 0.25 180-43688-1 0.25 180-43688-1 0.25 180-4368-1 0.25 180-4368-1 0.25 180-4368-1 0.25 180-4368-1 0.25 180-44373-1 0.25 180-44373-1 0.25 180-4423-1 0.25 180-43676-1 0.25 180-43676-1 0.25 180-43676-1 0.25 180-43676-1 0.25 180-43676-1 0.25 180-43676-1 0.25 180-43676-1 0.25	
1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroe	1,2-Dichloroethane
Premium Solvent	Premium Solvent

	2017 2017 2017 2017 2017 2015 2016 2016
Albuquerque Boise Chandler Charlotte Charlotte Chester Clackamas Farmington Kaukauna Omaha Tulsa Vinton Waukesha Maukesha Waukesha Vinton Chardle Avon Chardle Avo	Avon Chesapeake Cohoes Lackawanna Archdale Barre Clackamas Kaukauna St. Pauls Syracuse
83	
49	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.5 0.5
7,6 7,6 7,6 7,6 7,6 7,6 7,6 7,6 7,6 7,6	mg/r mg/r mg/r mg/r mg/r mg/r mg/r
0.125 0.125	0,125 0.125 0.125 0.125 0.125 0.125 0.25 0.25
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.5 0.5
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	
180-58744-1 180-52527-1 180-53394-1 180-58394-1 180-58394-1 180-58680-1 180-58680-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-58681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-65681-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-6821-1 180-68821-1	180-60141-1 180-60012-1 180-59840-1 180-60895-1 180-60618-1 180-53962-1 180-56003-1 180-5533-1
\$\frac{2}{2} \frac{2}{2} \frac	
2-Dichloroethane	2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 2-Dichloroethane
2-Dichloroethane 2-Dichloroethane 2-Dichloroethane 3-Dichloroethane	1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle 1,2-Diehle
**************************************	Solvent
Premium So So Premium So So Premium So	Premium Solvent

2016 2016 2016 2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017
Waukesha Sacremento Waukesha Archdale Avon Barre Boise Chardler Charlotte Chesapeake Chesapeake Chester Cohoes Grand Island Kaukauna Lackawanna Oklahoma City	Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Charlotte Auwaukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Charlotte Archdale Archdale Archdale Archdale Charlotte	Clackamas Cohoes Farmington Grand Island
	85	
	64	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		2222
1,50 1,00	7,66	mg/L mg/L mg/L
0.11 0.115 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125	0.125 0.125 0.125 0.125
0.11 0.23 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25
180-54674-1 180-58611-1 180-42767-1 180-43688-1 180-4338-1 180-43577-1 180-44139-1 180-44373-1 180-4377-1 180-4377-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1	180-47626-1 180-4329-1 180-4329-1 180-44558-1 180-48055-1 180-48057-1 180-51966-1 180-5127-1 180-52527-1 180-53494-1 180-53494-1 180-5336-1 180-5396-1 180-5396-1 180-5396-1 180-5396-1 180-5396-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54672-1 180-54673-1 180-54673-1 180-6650-1	180-69209-1 180-65928-1 180-68416-1 180-70383-1
1,4-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene
Premium Solvent	Premium Solvent	Premium Solvent Premium Solvent Premium Solvent Premium Solvent

2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015 2016 2016 2016
Kaukauna Kaukauna Kaukauna Ohaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Kaukauna St. Pauls Syracuse Lackawanna St. Pauls Syracuse Clackamas Kaukauna St. Pauls Syracuse Clackamas Kaukauna Sacremento Archdale Avon Barre Boise Charlotte Char	Syracuse Tulsa Waukesha Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Charlotte
;+ (2)	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
בככככככככככככככ	- - - - - - - - - - - - - - - - - - -
7/502 7/502 7/502 7/502 7/502 7/502 7/502 7/502 8 8 8 8 8 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7	1
0.125 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	2. C.
180-64751-1 180-64752-1 180-69242-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-6939-1 180-68919-1 180-6895-1 180-6895-1 180-60141-1 180-6012-1 180-53969-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-53962-1 180-43588-1 180-43588-1 180-435533-1 180-435531-1 180-435531-1 180-43577-1 180-43551-1 180-4338-1 180-43105-1 180-43311-1	180-4/626-1 180-48172-1 180-44558-1 180-48055-1 180-48055-1 180-47813-1 180-51966-1 180-58744-1 180-58394-1
1,4-Dichlorobenzene 1,4-Dichlorophenol 1,4,5-Trichlorophenol 1,4,5-Trichlorophen	2,4,5-Trichlorophenol
Solvent	Premium Solvent

2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2016 2017	2017 2017 2017 2017 2017 2017 2017 2017	2016
Chester Clackamas Farmington Kaukauna Kaukauna Omaha	St. Pauls Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Albuquerque	Avon Chandler Chesapeake Clackamas Cohoes Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Kaukauna Chardana City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Chesapeake Cohoes Lackawanna Archdale Barre Chandler Waukesha Chester Syracuse Kaukauna Grand Island Raleigh	Sacremento
	8	83	
		64	
0.13 0.13 0.13 0.13 0.13	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00.0
22222			D
mg/L mg/L mg/L mg/L mg/L	17,5 17,5 17,5 17,5 18,6 17,5 17,5 17,5 17,5 17,5 17,5 17,5 17,5	7/66 E E E E E E E E E E E E E E E E E E	mg/L mg/L
0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065	0.045
0.00 0.13 0.00 0.13 0.13		2.000000000000000000000000000000000000	0.09
180-54771-1 180-58680-1 180-56685-1 180-53961-1 180-53962-1	180-58138-1 180-58138-1 180-58732-1 180-58266-1 180-54672-1 180-54676-1 180-54677-1 180-54679-1 180-54680-1 180-66650-1	180-65693-1 180-65693-1 180-65693-1 180-65921-1 180-65928-1 180-65928-1 180-64751-1 180-64751-1 180-64751-1 180-69242-1 180-64751-1 180-65396-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-698911-1 180-698911-1 180-698911-1 180-598911-1 180-598911-1 180-598911-1 180-598911-1 180-598911-1 180-598911-1 180-598911-1 180-59891-1 180-59891-1 180-59891-1 180-59891-1	180-46329-1 180-58611-1
Premium Solvent 2,4,5-Trichlorophenol	Solvent Solven	Solvent 2:4, Solve	Premium Solvent 2,4,5-Trichlorophenol Premium Solvent 2,4,6-Trichlorophenol

2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2016 2016 2016 2016 2017 2017
Archdale Avon Barre Boise Chandler Charlotte Chesapeake Chester Chester Clackamas Cohoes Grand Island Kaukauna Kaukauna Kaukauna Lackawanna Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Charlotte Chandler Chandler Charlotte Charlot	Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Arahdale Archdale
	82
	6
$\begin{array}{c} 0.00000000000000000000000000000000000$	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
	7,6m 1,6m
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065
$\begin{array}{c} - \\ 0.000000000000000000000000000000000$	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
180-42767-1 180-4338-1 180-43338-1 180-44373-1 180-44373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4365-1 180-43687-1 180-48055-1 180-48055-1 180-48055-1 180-48055-1 180-51966-1 180-51966-1 180-51966-1 180-53494-1 180-53494-1 180-53494-1 180-53962-1 180-53961-1 180-53963-1 180-53963-1 180-53963-1 180-53963-1 180-5533-1 180-5533-1	180-58266-1 180-54672-1 180-54674-1 180-54676-1 180-54677-1 180-54677-1 180-54679-1 180-54679-1 180-54680-1 180-65687-1
Premium Solvent 2,4,6-Trichlorophenol Premium Solvent 2,4,6-Trichlorop	Solvent 2

Chandler 2017 Chesapeake 2017 Clackamas 2017 Farmington 2017 Grand Island 2017 Kaukauna 2017 Kaukauna 2017	as of security	Wichita 2015 Farmington 2015 Sacramento 2015 Vinton 2015 Albuquerque 2016 Boise 2016 Chandler 2016 Charlotte 2016
0.13 0.13 0.13 0.13 0.13		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7,66 E E E E E E E E E E E E E E E E E E	mg/L mg/L mg/L n mg/L n mg/L n mg/L n
0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065		0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065
phenol 180-64613-1 phenol 180-70321-1 phenol 180-69209-1 phenol 180-68416-1 phenol 180-64751-1 phenol 180-64752-1 phenol 180-64752-1		luene 180-47813-1 oluene 180-51966-1 oluene 180-51271-1 oluene 180-58744-1 oluene 180-5277-1 oluene 180-5394-1 oluene 180-53394-1
Premium Solvent 2,4,6-Trichlorophenol	1	Premium Solvent 2,4-Dinitrotoluene

2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016
Clackamas Farmington Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha	Waukesha Waukesha Waukesha Waukesha Waukesha Albuquerque Archdale Avon Chandler Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Lackawanna Oklahoma City	Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Chester Chester Barre Chester Chest
	88	
	49	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.000000000000000000000000000000000000
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		7,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065
0.000000000000000000000000000000000000		0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13
180-58680-1 180-56685-1 180-53962-1 180-53963-1 180-56003-1 180-55533-1 180-58138-1 180-58266-1 180-54672-1	180-54676-1 180-54676-1 180-54678-1 180-65687-1 180-65693-1 180-65928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-64752-1 180-64752-1	180-69242-1 180-69237-1 180-68372-1 180-65396-1 180-68924-1 180-68924-1 180-60141-1 180-60141-1 180-60141-1 180-6018-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1 180-5969-1
2,4-Dinitrotoluene	2,4-Dinitrotoluene	2,4-Dinitrotoluene
	Premium Solvent	

			2016 2016 2016 2016 2016 2016 2016 2017 2017 2017 2017
Avon Barre Boise Chandler Charlotte Chesapeake Chester Clackamas Cohoes Grand Island Kaukauna Kaukauna	Oklahoma City Omaha Raleigh St Pauls Stracuse Tulsa Waukesha Waukesha Waukesha Waukesha Farmington Sacramento Vinton Albuquerque	Boise Chandler Charlotte Chester Clackamas Farmington Kaukauna Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa	Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Abuquerque Archdale Archdale
		10	82
			94
	4		

		, , , , , , , , , , , , , , , , , , , ,	
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7/5m 1/6m 1/6m 1/6m 1/6m 1/6m 1/6m 1/6m 1/6	7,6 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	20/1 20/1
0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	00000000000000000000000000000000000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			1-9-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
180-43688-1 180-48338-1 180-42965-1 180-44139-1 180-48655-1 180-4373-1 180-4373-1 180-43105-1 180-43105-1	180-4526-7 180-46329-1 180-48329-1 180-48172-1 180-48558-1 180-48055-1 180-48055-1 180-47813-1 180-5126-1 180-51271-1	180-5553-7-1180-55535-7-1180-55557-1180-55557-1180-55557-1180-55557-1180-55557-1180-5557	180-58266-1 180-54672-1 180-54674-1 180-54675-1 180-54676-1 180-54679-1 180-65680-1 180-65687-1 180-65693-1
2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol
######################################			
Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent			Premium Solvent
Premium	Premium	Premium Premium Premium Premium Premium Premium Premium Premium Premium	Premium

C C C C C C C C C C C C C C C C C C C	2015 2015 2015 2016 2016 2016
	r ne to
Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Kaukauna Cohoes Vinton Waukesha Waukesha Waukesha Wichita Avon Barre Archdale Avon Chesapeake Cohoes Cherapeake Cohoes Chester Charlotte Charlotte Charlotte Chester Clackamas Cohoes Chester Clackamas Cohoes Chester Clackamana Kaukauna Kaukauna Kaukauna Kaukauna Kaukauna Kaukauna Clackamas Cohoes Chester Clackawana Syracuse Tulsa Waukesha Waukesha	Wichita Farmingtt Sacramen Vinton Albuquerq Boise Chandle
	141
	mg/L mg/L mg/L mg/L mg/L mg/L
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
	्रक्षा स्थाप स्थाप
180-70321-1 180-65928-1 180-65928-1 180-68416-1 180-64751-1 180-64751-1 180-64753-1 180-68227-1 180-68924-1 180-68924-1 180-68924-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-68925-1 180-4388-1 180-4368-1 180-4368-1 180-4368-1 180-43631-1 180-4333-1 180-4333-1 180-4333-1 180-4333-1 180-4333-1 180-4333-1 180-4333-1 180-4333-1 180-4356-1 180-4356-1 180-4458-1 180-4458-1	180-47813-1 180-51966-1 180-49236-1 180-51271-1 180-58744-1 180-52527-1
2-Methylphenol 3-Methylphenol 3-Meth	Arsenic Arsenic Arsenic Arsenic Arsenic
Premium Solvent	

2016 2016 2016 2016 2016 2016 2016 2016	
Charlotte Chester Clackamas Farmington Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Maukesha Waukesha Waukesha Waukesha Waukesha Ahluquerque Archdale Aron Chandler	Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Kaukauna City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Waukesha Avon Chesapeake Cohoes Lackawanna Archdale Barre Sacremento Lackawanna Barre Sacremento Lackawanna Farmington
88	
64	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	מיי יככככככככככככככככככככ
	7/50 7/50 7/50 7/50 7/50 7/50 7/50 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
0.000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.025 0.025
180-58394-1 180-58680-1 180-5685-1 180-53961-1 180-53962-1 180-53963-1 180-5533-1 180-556003-1 180-55533-1 180-55533-1 180-54672-1 180-54676-1 180-54676-1 180-54676-1 180-54676-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1	180-5928-1 180-65928-1 180-65928-1 180-65928-1 180-64751-1 180-64751-1 180-64751-1 180-64751-1 180-69242-1 180-69237-1 180-69237-1 180-68372-1 180-68319-1 180-68919-1 180-68919-1 180-68919-1 180-69141-1 180-60618-1 180-59840-1 180-59840-1 180-59840-1 180-59840-1 180-60895-1 180-60895-1 180-60895-1 180-60895-1 180-60895-1 180-60811-1
Arsenic	Arsenic
	Premium Solvent

2015 2015 2015 2015 2015 2015 2015 2015
Avon Boise Lackawanna Waukesha Syracuse Cohoes Chester Chandler Raleigh Waukesha Vinton Kaukauna Waukesha Vinton Kaukauna Waukesha Chandler Boise Raukauna Waukesha Chester Chandler Boise Raukauna Waukesha Chester Chandler Boise Raukauna Waukesha Chesapeake Tulsa Waukesha Chandler Boise Kaukauna Waukesha Chandler Boise Kaukauna Waukesha Chandler Boise Chandler Boise Chandler Boise Chandler Syracuse Omaha Charlotte Syracuse Omaha Kaukauna Vinton Archdale St Pauls Wichita Clackamas
85
888888888888888888888888888888888888888
0.033 0.038 0.044 0.063 0.069 0.075 0.12 0.12 0.13 0.13 0.13 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15
0.033 0.0038 0.0069 0.0069 0.0076 0.012 0.012 0.024 0.033 0.
180-43688-1 180-42965-1 180-43631-1 180-48055-1 180-43677-1 180-43577-1 180-43577-1 180-43577-1 180-43577-1 180-43577-1 180-54678-1 180-54678-1 180-54678-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1 180-54671-1 180-54671-1 180-54671-1 180-5533-1 180-65928-1 180-65928-1 180-65928-1 180-65928-1 180-65928-1 180-54673-1 180-65928-1 180-6618-1 180-6618-1 180-6618-1 180-6618-1 180-6618-1 180-6618-1 180-6618-1 180-5533-1 180-65533-1 180-5633-1 180-65533-1 180-6553-1
Barium
Premium Solvent

	2016 2016 2016
Farmington Omaha St. Pauls Tampa Tulsa Vinton Albuquerque Archdale Avon Chandler Chesapeake Clackawanna Raleigh St Pauls Syracuse Waukesha Wichita Cohoes Lackawanna Archdale Avon Boise Chandler Chesapeake Chandler Chesapeake Cohoes Lackawanna Archdale Avon Boise Cohoes Lackawanna Archdale Avon Boise Cohoes Chandler Cohoes Kaukauna Kaukauna Kaukauna Kaukauna Kaukauna Kaukauna Kaukauna Cohoes Kaukauna Kaukauna Kaukauna Cohoes Kaukauna Kaukauna Kaleigh St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Kaleigh St Pauls Cohoes Kaukauna Kaleigh St Pauls Cohoes Kaukauna Waukesha	Tulsa Waukesha Waukesha
20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.25 0.25 0.25
	
7,6m 7,7m 7,7m 7,7m 7,7m 7,7m 7,7m 7,7m	mg/L mg/L mg/L
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.125 0.125 0.125
20	0.25 0.25 0.25
180-56685-1 180-57964-1 180-58138-1 180-58732-1 180-6650-1 180-6650-1 180-6583-1 180-6589-1 180-65396-1 180-65396-1 180-65396-1 180-65396-1 180-65396-1 180-65896-1 180-65896-1 180-65896-1 180-65896-1 180-48057-1 180-4373-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43631-1 180-43887-1 180-43887-1 180-43887-1 180-43887-1 180-43887-1 180-4568-1 180-4588-1 180-4588-1 180-4588-1 180-4588-1 180-51966-1 180-51966-1 180-51966-1	180-58732-1 180-54672-1 180-54674-1
Barium	Benzene Benzene Benzene
Premium Solvent	Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017
Waukesha Waukesha Waukesha Waukesha Albuquerque Archdale Avon Chandler Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Lackawanna Oklahoma City	Raleigh Syracuse Vinton Waukesha Waukesha Avon Chesapeake Cohoes Lackawanna Archdale Sacramento Grand Island Waukesha Waukesha St. Pauls Waukesha Waukesha Waukesha Waukesha St. Pauls St. Pauls St. Pauls St. Pauls St. Pauls Wichita St. Pauls Waukesha Wichita St. Pauls Vinton Tampa Barre Charlotte Boise Charlotte	St Pauls Clackamas Waukesha
	83	
	64	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.5
222222222222	בכבירכככככככככ	, <u>, , ,</u> a a a
7/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1		mg/L mg/L
0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.23 0.23 0.23 0.24 0.25 0.23 0.25 0.23 0.25 0.25 0.25 0.25 0.27 0.23 0.25 0.23 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.016 0.017 0.017
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.016 0.017 0.017
180-54675-1 180-54676-1 180-54679-1 180-54679-1 180-65687-1 180-65693-1 180-69209-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1 180-6928-1	180-69244-1 180-69237-1 180-68324-1 180-68924-1 180-68925-1 180-68925-1 180-69940-1 180-59840-1 180-59840-1 180-59860-1 180-59860-1 180-5441 180-54672-1 180-58772-1 180-58772-1 180-58772-1 180-58771-1 180-58772-1 180-58771-1 180-58771-1 180-58771-1 180-58771-1 180-58680-1 180-58680-1	180-68772-1 180-69209-1 180-68919-1
\$\pi & \pi &		2 22 22
Benzene	Benzene	Cadmium Cadmium Cadmium Cadmium
Solvent Solven		Solvent Solvent Solvent
Premium Solvent	Premium	Premium Solvent Premium Solvent Premium Solvent Premium Solvent

	2015 2016 2016 2016 2016
Tulsa Archdale Omaha Cohoes Chesapeake Oklahoma City Kaukauna Waukesha Sacremento Barre Omaha Omaha Vinton Waukesha Sacremento Barre Omaha Vinton Kaukauna Charlotte Grand Island Lackawanna Chester Wichita Lackawanna Chester Vinton Kaukauna Syracuse Waukesha Vinton Kaukauna Syracuse Waukesha Chester Waukesha Syracuse Chester Waukesha Syracuse Chester Waukesha Grand Island Cohoes Waukesha Boise Kaukauna St Pauls Syracuse Chester Waukesha Waukesha Waukesha Waukesha Waukesha	Sacramento Chandler Charlotte Clackamas Farmington
88	
49	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5
	
7/6u 2/7/6u 2/7/	mg/L mg/L mg/L
0.019 0.021 0.023 0.023 0.023 0.023 0.026 0.033 0.033 0.033 0.033 0.033 0.044 0.045 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.054 0.054 0.055	0.25 0.25 0.25 0.25 0.25
0.019 0.021 0.023 0.023 0.023 0.028 0.028 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.034 0.045 0.05 0.0	0.5 0.5 0.5 0.5
180-44558-1 180-60895-1 180-69237-1 180-43577-1 180-43577-1 180-5362-1 180-54678-1 180-54678-1 180-54678-1 180-54674-1 180-54671-1 180-64753-1 180-64753-1 180-64753-1 180-64753-1 180-64753-1 180-59969-1 180-59969-1 180-59969-1 180-59969-1 180-59969-1 180-59969-1 180-59969-1 180-64771-1 180-6598-1 180-6598-1 180-65396-1 180-65396-1 180-65396-1 180-65396-1 180-65396-1 180-65396-1	180-49236-1 180-53494-1 180-58394-1 180-58680-1
Cadmium	Cadmium Cadmium Cadmium Cadmium Cadmium
Premium Solvent	Premium Solvent Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016
Kaukauna St. Pauls Tampa Tulsa Waukesha Waukesha Waukesha Avon Chandler Kaukauna Cohoes Barre Boise Chandler Archdale Avon Barre Boise Chandler Cohoes Barre Cohoes Chandler Cohoes Barre Boise Chandler Cohoes Barre Boise Chandler Cohoes Chandler Cohoes Barre Boise Chandler Cohoes Barre Boise Chandler Cohoes Chandler Cohoes Barre Boise Chandler Cohoes Barre Boise Chandler Cohoes Barre Boise Chandler Cohoes Boise Chandler Cohoes Chandler Cohoes Boise Chandler Cohoes Chandler Cohoes Boise Chandler Archdale Avon Barre Boise Cohoes Chandler Cohoes Chandler Cohoes Chandler Cohoes Boise Nichita Farmington Sacramento Vinton Albuquerque Boise	Chandler Charlotte Chester
0.5 0.5 0.5 0.5 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.25 0.25 0.25
	222
7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m	mg/L mg/L mg/L
0.25 0.25 0.25 0.25 0.25 0.25 0.125	0.125 0.125 0.125
0.5 0.5 0.5 0.5 0.5 0.25 0.25 0.25 0.25	0.25 0.25 0.25
180-53961-1 180-53961-1 180-58138-1 180-58732-1 180-54672-1 180-54675-1 180-65697-1 180-65697-1 180-65697-1 180-64751-1 180-64751-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-68924-1 180-6891-1	180-53494-1 180-58394-1 180-54771-1
Cadmium Cadmon Tetrachloride Carbon Tetrachloride	Carbon Tetrachloride Carbon Tetrachloride Carbon Tetrachloride
Premium Solvent Premium Solvent	Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2016 2016 2016 2016 2016	2016 2017 2017 2017 2017 2017 2017 2017 2017	
Clackamas Farmington Kaukauna Kaukauna Omaha Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha	Waukesha Albuquerque Archdale Avon Chandler Chandler Chandler Chandler Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Comaha Raleigh St Pauls Syracuse Vinton Waukesha	Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Clackamas Kaukauna St. Pauls Syracuse Sacremento Archdale Archdale Barre Barre Barre Barre Barre
6	88	
	65	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,56 7,76 7,76 7,76 7,76 7,76 7,76 7,76
66666666666666		
0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.25 0.25 0.25 0.125 0.125 0.125
		5
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
180-58680-1 180-56685-1 180-53963-1 180-57964-1 180-58138-1 180-58732-1 180-58773-1 180-54673-1 180-54677-1 180-54677-1 180-54677-1 180-54677-1	180-54680-1 180-66650-1 180-65687-1 180-6563-1 180-65928-1 180-6928-1 180-6928-1 180-6928-1 180-69242-1 180-69242-1 180-69237-1 180-69237-1 180-69237-1 180-665396-1 180-665396-1 180-665396-1	180-68924-1 180-68925-1 180-60141-1 180-5989-1 180-5989-1 180-5989-1 180-47754-1 180-5533-1 180-5533-1 180-4888-1 180-4888-1
208 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
Tetrachloride	chloride chl	achloride achloride
Carbon Tetrachloride	Carbon Tetrachloride	Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene
	000000000000000000000000000000000000000	
		Premium Solvent
Premium	Premium	Pren Pren Pren Pren Pren Pren Pren

2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2016 2016 2016	2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017
Chandler Charlotte Chesapeake Chester Cohoes	Grand Island Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha	Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Chandler Charlotte Chester	Clackamas Farmington Kaukauna Omaha Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha	Albuquerque Archdale Avon Chandler Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna
			8	N _O
			Q.	P
0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
2222				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
mg/L mg/L mg/L mg/L	1/6u 2/7/2 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/	mg/L mg/L mg/L mg/L mg/L mg/L	7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 8 8 1/5u 1/5u 8 1/5u 1/5u 8 1/5u 1/5u 1/5u 1/5u 1/5u 1/5u 1/5u 1/5u	7/6u 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7
0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125
0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
180-43577-1 180-44139-1 180-48655-1 180-44373-1	180-44223-1 180-43105-1 180-43631-1 180-45621-1 180-47626-1 180-48172-1 180-43687-1 180-44558-1 180-48055-1	180-48057-1 180-47813-1 180-51966-1 180-51271-1 180-58744-1 180-53257-1 180-53494-1 180-53394-1	180-58680-1 180-56685-1 180-53961-1 180-53963-1 180-53963-1 180-53963-1 180-58732-1 180-54672-1 180-54672-1 180-54672-1 180-54676-1 180-54676-1 180-54676-1 180-54676-1	180-54580-1 180-6650-1 180-6563-1 180-64613-1 180-69209-1 180-69209-1 180-69211-1 180-69211-1 180-69211-1 180-64751-1
Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene	Chlorobenzene	Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene	Chlorobenzene	Chlorobenzene
Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent	Premium Solvent	Premium Solvent	Premium Solvent	Premium Solvent

2017 2017 2017 2017 2017 2017 2017 2017	2016
Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Barre Barre Charlotte Chesapeake Cohoes Charlotte Chesapeake Cohoes Syracuse Syracuse Charlotte Chesapeake Charlotte Charlotte Charlotte Charlotte Cohoes Syracuse Tackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Charlotte	Clackamas
0.25 0.25 0.25 0.25 0.25 0.25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
	n
7/6 E E E E E E E E E E E E E E E E E E E	mg/L
0.125 0.125	0.5
0.025 0.025 0.025 0.025 0.025 0.025 0.035	
180-64753-1 180-65696-1 180-69242-1 180-69237-1 180-68772-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68924-1 180-68919-1 180-68924-1 180-68924-1 180-6995-1 180-6995-1 180-6995-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4373-1 180-4323-1 180-4223-1 180-4223-1 180-4223-1 180-4223-1 180-4223-1 180-4233-1 180-4855-1 180-4855-1 180-4858-1	180-58680-1
Chlorobenzene Chloroform	Chloroform
Premium Solvent	Premium Solvent

2016 2016 2016 2016 2016 2016 2016 2016		2017
Farmington Kaukauna Kaukauna Omaha Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha	Waukesha Albuquerque Archdale Avon Chandler Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Kaukauna Cohoes Syracuse Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Syracuse Cohoes Lackawanna Avon Chesapeake Cohoes Lackawanna Archdale Barre Clackamas Kaukauna St. Pauls Syracuse Avon Sacremento Avon Sacremento	Kaukauna Charlotte
	82	
		0.5
		, ¬ ¬
7, 1, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		mg/L mg/L
O O O O O O O O O O O O O O O O O O O	20000000000000000000000000000000000000	0.068
	0000	0.068
180-56685-1 180-53961-1 180-53963-1 180-57964-1 180-58138-1 180-58732-1 180-54672-1 180-54677-1 180-54677-1 180-54678-1	180-55687-1 180-65687-1 180-65687-1 180-65693-1 180-69209-1 180-69209-1 180-69209-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-6939-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1 180-69919-1	180-58394-1
Chloroform	Chloroform	Chromium Chromium
Premium Solvent		Premium Solvent Premium Solvent

2017 2017 2017 2017 2018 2018 2019 2015 2015 2015 2015 2015 2015 2015 2015	
Syracuse Waukesha Lackawanna Farmington Clackamas Kaukauna Vinton Chesapeake Chester Wichita Barre Sacramento Albuquerque Grand Island Vinton Kaukauna Charlotte Kaukauna Chardler Syracuse Vinton Kaukauna Chardler Chesapeake Chardler Chardler Chesapeake Chardler Syracuse Vinton Kaukauna Chardler Chardler Chardler Chardler Syracuse Chardler Avon Boise St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha	
83	
48	

7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5 7/5	
0.076 0.08 0.08 0.085 0.087 0.087 0.087 0.087 0.094 0.12 0.12 0.12 0.12 0.12 0.13 0.12 0.13 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	
0.076 0.08 0.085 0.087 0.087 0.087 0.094 0.112 0.112 0.122 0.023 0.023 0.055	
180-65396-1 180-68919-1 180-59969-1 180-69209-1 180-69209-1 180-69209-1 180-43105-1 180-4771-1 180-4771-1 180-4771-1 180-4771-1 180-4771-1 180-48338-1 180-49236-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-4751-1 180-4751-1 180-4751-1 180-4751-1 180-4373-1 180-4373-1 180-4373-1 180-4565-1 180-4565-1 180-4568-1 180-4568-1 180-58138-1 180-58138-1 180-58138-1 180-58732-1 180-58732-1 180-54672-1 180-54672-1 180-54676-1	
Chromium	
Premium Solvent	

2016 2017 2017 2017 2017 2017 2017 2017 2016 2016 2016 2016 2016 2017 2016 2017 2016 2017 2016 2017	
Waukesha Albuquerque Archdale Chandler Farmington Oklahoma City Raleigh St Pauls Waukesha Wichita Kaukauna Barre Clackamas Kaukauna Barre Clackamas Kaukauna Barre Clackamas Waukesha Waukesha Waukesha Waukesha Waukesha Tackawanna Tulsa Grand Island	Charlotte Vinton Kaukauna St Pauls Wichita Sacremento Vinton Archdale Chandler Avon Kaukauna Omaha Raleigh Chesapeake Archdale Clackamas Cohoes Syracuse Waukesha Lackawanna Oklahoma City Clackamas Clackamas Cohoes Syracuse Waukesha Lackawanna Oklahoma City Clackamas Albuquerque Chesapeake Oklahoma City Clackamas Albuquerque Clackawanna Viahoma City Clackawanna Clackawanna Clackawanna Clackawanna Clackawanna Chandler
0.000000000000000000000000000000000000	
2222222777	
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Degrees F
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.35 0.46 0.46 0.46 0.47 0.77	\$ 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	\$ 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
180-54679-1 180-66650-1 180-64613-1 180-68416-1 180-69242-1 180-68772-1 180-68924-1 180-64796-1 180-64752-1 180-65928-1 180-53962-1 180-53962-1 180-53962-1 180-54680-1 180-54680-1 180-54680-1 180-54680-1 180-54680-1	180-58394-1 180-58394-1 180-68416-1 180-68772-1 180-68772-1 180-68772-1 180-66253-1 180-66253-1 180-66253-1 180-66293-1 180-67392-1 180-69209-1 180-69209-1 180-69269-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1
Chromium	Flash Point
Premium Solvent	Premium Solvent

2015 2015 2016 2016 2017 2015 2015 2015 2015 2015 2015	2015 2015 2016 2016 2016 2016 2016 2016 2016	2015 2017 2015 2015 2016 2016 2016 2016		2016 2016 2015 2015 2016 2015 2015 2015 2015 2015
Raleigh Syracuse Kaukauna St. Pauls Waukesha Kaukauna Avon Lackawanna Farmington Avon Charlotte Chester	Kaukauna Tulsa Wichita Boise Farmington Kaukauna Syracuse Waukesha Waukesha	Waukesha Waukesha Boise Kaukauna Chandler Chester Waukesha Waukesha Omaha	Chesapeake Waukesha Waukesha Waukesha Tampa Archdale Barre Vinton Barre Albuquerque	Waukesha Waukesha Sacramento Clackarnas Kaukauna Sacremento Archdale Avon Barre Boise Chandler Chandler
	83			
	9			
******* * *				1 0.00000000000000000000000000000000000
				555555
Degrees F T T T T T T T T T T T T T T T T T T	Degrees F	Degrees F	Degrees F	Degrees F
153 153 153 153 152 152 151 151	£ £ £ £ £ £ £ £ £ £		5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	135 135 130 125 83 0.065 0.065 0.065 0.065 0.065
55 55 55 55 55 55 55 55 57 57 57 57	<u> </u>	1.51 1.52 1.53 1.54 1.54 1.54 1.54 1.54 1.54 1.54 1.54	447 147 147 143 139 130 *	135 135 130 125 83 0.09 0.13 0.13 0.13
180-46329-1 180-43687-1 180-53961-1 180-54678-1 180-44753-1 180-43688-1 180-43688-1 180-4368-1 180-6141-1 180-44139-1 180-44373-1	180-43105-1 180-4458-1 180-47813-1 180-52527-1 180-56685-1 180-54672-1 180-54674-1 180-54674-1	180-546/9-1 180-68919-1 180-42965-1 180-53494-1 180-54771-1 180-54675-1	180-48655-1 180-48655-1 180-48055-1 180-48057-1 180-58138-1 180-60618-1 180-51271-1 180-58744-1	180-54673-1 180-54680-1 180-49236-1 180-47754-1 180-58611-1 180-42767-1 180-4338-1 180-43139-1 180-44139-1
Flash Point	Flash Point	Hash Point Flash Point	Flash Point	
Premium Solvent		Premium Solvent	Premium Solvent	Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent

2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2016 2016 2016 2016 2016
Chesapeake Chester Clackamas Cohoes Grand Island Kaukauna Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Chandler Chandler Chandler Charlotte Charlotte	Farmington Kaukauna Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Abuquerque Archdale
	88
	64
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $
7,6m 7,6m 7,6m 7,6m 7,6m 7,6m 8,00 7,6m 8,00 7,6m 8,00 7,6m 8,00 7,00 8,00 7,00 8,00 8,00 8,00 8,00	######################################
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065
$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	£1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0
180-48655-1 180-4373-1 180-4373-1 180-43576-1 180-43105-1 180-43107-1 180-43631-1 180-45621-1 180-46521-1 180-48055-1 180-48055-1 180-48055-1 180-48055-1 180-49236-1 180-5527-1 180-5527-1 180-53494-1 180-53894-1 180-53894-1	180-56885-1 180-53961-1 180-53963-1 180-53963-1 180-5533-1 180-58138-1 180-58732-1 180-58732-1 180-54672-1 180-54672-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54679-1 180-5687-1 180-65687-1 180-65687-1 180-65687-1 180-65687-1 180-65687-1 180-65687-1
Hexachlorobenzene	Hexachlorobenzene
Premium Solvent	

2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2016 2016
Kaukauna Kaukauna Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Boise Charlotte Chesapeake Chesapeake Cohoes Charlotte Chesapeake Cohoes Grandler Cohoes Barre Boise Charlotte Chesapeake Cohoes Charlotte Cohoes Charlotte Cohoes Archdale Barre Boise Cohoes Charlotte Chesapeake Cohoes Charlotte Cohoes Charlotte Cohoes Archdale Barre Boise Cohoes Charlotte Chesapeake Cohoes Charlotte Cohoes Charlotte Chesapeake Cohoes Charlotte Cohoes Charlotte Cohoes Cohoes Cohoes Charlotte Cohoes Cohoes Cohoes Cohoes Cohoes Cohoes Cohoes Charlotte Cohoes	Charlotte Chester Clackamas Farmington
0.000000000000000000000000000000000000	0.13 0.13 0.13
* * * * ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	2222
	mg/L mg/L mg/L
0.065 0.065	0.065 0.065 0.065 0.065
0.000000000000000000000000000000000000	0.13 0.13 0.13
180-64751-1 180-64752-1 180-65696-1 180-69242-1 180-69237-1 180-69237-1 180-68372-1 180-68319-1 180-68319-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-42965-1 180-4368-1 180-4368-1 180-4365-1 180-4365-1 180-4365-1 180-4358-1 180-4365-1 180-4365-1 180-4365-1 180-4365-1 180-44139-1 180-4365-1 180-4365-1 180-4365-1 180-4458-1 180-4458-1 180-4458-1 180-4458-1	180-58394-1 180-54771-1 180-58680-1 180-56685-1
Hexachlorobenzene Hexachlorobutadiene	Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene
Premium Solvent Premium Solvent	Premium Solvent Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015
Kaukauna Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha Waukesha	Waukesha Waukesha Waukesha Waukesha Abuquerque Archdale Avon Chandler St Pauls Syracuse Vinton Waukesha	Chesapeake
82		
49		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.13
	, , , , , , , , , , , , , , , , , , ,	D
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7,50 1,00	mg/L
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065	0.065
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	0.13
180-53961-1 180-53962-1 180-53963-1 180-57964-1 180-55533-1 180-58138-1 180-58732-1 180-54672-1 180-54674-1 180-54674-1	180-54672-1 180-54677-1 180-54678-1 180-6650-1 180-65693-1 180-65693-1 180-65693-1 180-6413-1 180-6413-1 180-6413-1 180-6413-1 180-64752-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6253-1 180-6396-1 180-6396-1 180-6396-1 180-6396-1 180-6398-1 180-6398-1 180-6398-1 180-6398-1 180-6398-1	180-48655-1
Hexachlorobutadiene	Hexachlorobutadiene Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane	Hexachloroethane
Premium Solvent	Solvent	Premium Solvent

2015	2015	2015	2015	2013	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2010	2016	2010	2016	2016	2010	2016	2010	2010	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2017	2017	7017	2017	2017	2017	2017	2017	2017	
Chester	Cohoes	Grand Island	Kaukauna	Schowsons	Oklahoma City	Omaha	Raleigh	St Pauls	Syracuse	Tulsa	Waukesha	Waukesha	Waukesha	Wichita	Farmington	Sacramento	Vinton	Albuquerque	Boise	Chandler	Charlotte	Chester	Clackamas	Farmington	Kaukauna	Kaukauna	Kaukauna Omaha	C+ Darile	Syractice	Tampa	Tirisa	Vinton	Waukesha	Waukesha	Waukesha	Waukesha	Waukesha	Waukesha	Waukesha	Waukesha	Waukesha	Albuquerque	Archdale	Avon	Chandler	Chesapeake	Clackarilas	Grand Island	Karikarina	Kaukauna	
																																					82														
																																					49														
0.13	0.13	0.13	0.13	0.13	. c	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0:13	0.13	0.0	0.13	0.00	0.0	0.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.0		0.13) ;
D =) ⊃)	⊃ :	o :	o =) =) 그) 그) 그) ⊃) 그) ⊃	· ⊃	⊃	⊃	n	⊃	⊃	D) :	o :) :	⊃ :	> :) :	o :	o :	o =	o :	o =	o =	> =) <u>=</u>) ⊃	\supset	n	n	⊃	⊃	⊃	n i	*	⊃:)	⊃ :) =) :	> =	> *=	* =)
mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L		ma/L	ma/l/		ma/L	ma/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L ∞a.′¹	mg/L	mg/L mg/l	ma/L	ma/L	mg/L	mg/L mg/l	mg/L	1/gm 1/pm	<u>.</u>																									
0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.003	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	200
0.13	0.13	0.13	0.13	0.13			0.0	0.13		o c	0 0	0.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		0 0 0 0 0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.10	0. 0.	2
180-44373-1	180-43576-1	180-44223-1	180-43105-1	180-43107-1	180-43631-1	180-43021-1	180-47820-1	180-48172-1	180-43687-1	180-44558-1	180-48055-1	180-48056-1	180-48057-1	180-47813-1	180-51966-1	180-49236-1	180-51271-1	180-58744-1	180-52527-1	180-53494-1	180-58394-1	180-54771-1	180-58680-1	180-56685-1	180-53961-1	180-53962-1	180-53963-1	180-57964-1	180-56003-1	180-55533-1	180-58138-1	180-58/32-1	190-20200-1	180-54673-1	180-54674-1	180-54675-1	180-54676-1	180-54677-1	180-54678-1	180-54679-1	180-54680-1	180-66650-1	180-65687-1	180-65693-1	180-64613-1	180-70321-1	180-69209-1	180-68416-1	180-70383-1	180-64752-1	100-041
Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachioroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexacilloroethane	Hexachloroethane	Hexachloroethane	Hexacilloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	nexacilloroctiane Hexachloroethane	Hexachloroethane	Devacinoi oetilalle																													
Solvent	Premium Solvent	Solvent	Solvent	Solvent	Solvent	Premium Solvent	Solvent	Solvent	Solvent	Solvent	Solvent	Premium Solvent					Premium Solvent		Premium Solvent		Premium Solvent						Premium Solvent					Premium Solvent		Premium Solvent	Premium Solvent		Premium Solvent	Premium Solvent		Premium Solvent		Premium Solvent	Premium Solvent								

	2016 2016 2016
Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Cohoes Avon Chesapeake Cohoes Lackawanna Archdale Chesapeake Cohoes Avon Chesapeake Tulsa Sacramento Raleigh Grand Island Waukesha Boise St. Pauls St. Pauls St. Pauls St. Pauls Avon Omaha Waukesha Chester Vinton Barre Boise Chandler Kaukauna St. Pauls Waukesha Waukesha Waukesha Vinton Barre Boise Chandler Kaukauna St. Pauls	Clackamas Farmington Kaukauna
	mg/L mg/L mg/L
0.065 0.065	0.5 0.5 0.5
$\begin{smallmatrix} 0.0.0 & 0.$	
180-64753-1 180-65696-1 180-69242-1 180-69237-1 180-68772-1 180-68319-1 180-68319-1 180-68319-1 180-68319-1 180-68319-1 180-68324-1 180-68319-1 180-68311-1 180-69231-1 180-69231-1 180-69231-1 180-69231-1 180-69231-1 180-5386-1 180-4338-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1 180-69237-1	180-58680-1 180-56685-1 180-53961-1
Hexachloroethane Hexach	Lead Lead Lead
Premium Solvent	Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2016 2016 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2017		2015 2016 2017 2017 2017 2017 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017
Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Albuquerque Archdale	Chesapeake Clackamas Farmington Kaukauna Kaukauna Waukesha Wichita Chesapeake Cohoes Lackawanna Archdale	Omaha Syracuse Oklahoma City Waukesha Syracuse Kaukauna Waukesha Vinton Waukesha Clackamas Cohoes Grand Island Cohoes Syracuse Albuquerque	Raleigh Waukesha Omaha Barre Kaukauna Lackawanna Waukesha Sacremento Charlotte Vinton Tampa Clackamas Lackawanna Omaha Archdale
	87		
	0.0		
		7777	a
7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m 7/5m	7/5m 1/6m 1/6m 1/6m 1/6m 1/6m 1/6m 1/6m	176 1867 1	
0.000000000000000000000000000000000000	00000000000000000000000000000000000000	0.55 0.68 0.69 0.89 0.89 1.1 1.2 2.4 2.5 3.3 3.9	8.4 8.8 16 16 22 53 80 0.0054 0.0087 0.0097 0.0094 0.0111 0.0165
~~~ <del>~~~</del>	· 0	0.55 0.58 0.69 0.69 0.89 1.1 1.1 2.4 2.4 2.5 3.3 3.3 3.5 7.5	8.4 8.8 16 16 22 23 80 0.0054 0.0087 0.0087 0.0094 0.0033 0.033
180-58138-1 180-58732-1 180-58266-1 180-54672-1 180-54674-1 180-54678-1 180-56650-1 180-65687-1	180-70321-1 180-69209-1 180-68416-1 180-64751-1 180-68919-1 180-60012-1 180-59840-1 180-59869-1 180-60895-1	180-47626-1 180-55533-1 180-69242-1 180-63366-1 180-53962-1 180-51271-1 180-54677-1 180-43576-1 180-43576-1 180-65928-1 180-65928-1 180-65396-1	180-46329-1 180-54673-1 180-60618-1 180-64752-1 180-65696-1 180-58611-1 180-58394-1 180-58394-1 180-58389-1 180-58138-1 180-58138-1 180-5969-1 180-57964-1 180-43688-1
Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead
	Premium Solvent		

	2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016		2017 2017 2017 2017 2017
Barre Chandler Charlotte Chesapeake Chester Clackamas Cohoes Cohoes Grand Island Kaukauna Kaukauna Lackawanna Oklahoma City Omaha Raleigh	St Pauls Syracuse Tulsa Waukesha Waukesha Farmington Sacramento Vinton Albuquerque Boise Chandler Chester Farmington Kaukauna Kaukauna	Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Chandler Archdale Archdale Archdale Archdale Achdale Chandler Chandler Clackamas Clackamas	Farmington Grand Island Kaukauna Kaukauna Kaukauna
		85	
		64	
0.0333333333333333333333333333333333333	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033
			*
000/1 000/1 000/1 000/1 000/1 000/1 000/1 000/1 000/1	7,56 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	mg/L mg/L mg/L
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.0165 0.0165 0.0165 0.0165
0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033
180-48338-1 180-43577-1 180-44373-1 180-4373-1 180-4373-1 180-43576-1 180-4323-1 180-43107-1 180-43631-1 180-45021-1 180-46329-1	180-48172-1 180-4558-1 180-48055-1 180-48055-1 180-48057-1 180-51271-1 180-5257-1 180-53961-1 180-53961-1	180-53903-1 180-56003-1 180-55533-1 180-54672-1 180-54674-1 180-54676-1 180-54676-1 180-54678-1 180-54680-1 180-65697-1 180-65693-1 180-65693-1 180-6509-1 180-65928-1	180-68416-1 180-70383-1 180-64751-1 180-64752-1
Mercury	Mercury	Mercury	Mercury Mercury Mercury Mercury
Premium Solvent		Premium Solvent	

2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2016 2016
Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Wichita Avon Chesapeake Cohoes Archdale Barre Boise Charlotte Chester Colackamas Kaukauna Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukena Charlotte	Waukesha Waukesha Waukesha Waukesha
0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.25 0.25 0.25 0.25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	00000
7/500 7/200 7/200 7/200 7/200 7/200 7/200 7/200 8 8 8 8 8 8 8 9 7/200 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	mg/L mg/L mg/L
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.	0.125 0.125 0.125 0.125
0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.035 0.025 0.25 0.25 0.25 0.25 0.25 0.25 0.	0.25 0.25 0.25 0.25
180-65696-1 180-69242-1 180-69237-1 180-69237-1 180-68772-1 180-68772-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-4373-1 180-43576-1 180-43576-1 180-43576-1 180-43576-1 180-4358-1 180-4358-1 180-68055-1 180-5844-1 180-58680-1 180-58969-1 180-58969-1	180-54673-1 180-54673-1 180-54674-1 180-54675-1
eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup eroup	Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone
Premium Solvent	Premium Solvent Premium Solvent Premium Solvent Premium Solvent

2016 2016 2016 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018	2015 2015 2015 2015
Waukesha Waukesha Waukesha Chesapeake Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Syracuse Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Syracuse Cohoes Lackawanna Archdale Barre Clackamas Kaukauna St. Pauls Lackawanna Archdale Barre Clackamas Kaukauna Syracuse Raleigh Avon Archdale Chesapeake Farmington Tampa Albuquerque Clackamas Charlotte Kaukauna Oklahoma City Chandler Syracuse Wichita Sacremento Archdale Avon Barre Boise Chandler	Charlotte Chesapeake Chester Clackamas
88	
64	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	
	ככככ
	mg/L mg/L mg/L
0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.0 0.5 0.5 0.5 0.5
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	
80-54677-1 80-54677-1 80-54680-1 80-5928-1 80-68416-1 80-68416-1 80-68416-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-64751-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68919-1 80-68913-1 80-68913-1 80-68911-1 80-68913-1 80-68913-1 80-68913-1 80-68913-1 80-68913-1 80-68913-1 80-68913-1	180-44139-1 180-48655-1 180-44373-1 180-47754-1
Methyl Ethyl Ketone	യ യ യ യ യ യ ൽ ൽ
Premium Solvent	

	2016 2016 2016 2016 2016 2016 2016 2016
Cohoes Grand Island Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Chandler Charlotte	St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Chandler Arohale
	88
	64
200000000000000000000000000000000000000	22222222222222222
7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 7/5u	7/50 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60 1/60
ស់ សំ	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-43576-1 180-44223-1 180-43107-1 180-43107-1 180-45021-1 180-45021-1 180-45021-1 180-4856-1 180-4856-1 180-4856-1 180-4856-1 180-48056-1 180-51966-1 180-51271-1 180-5344-1 180-58394-1 180-58394-1 180-58680-1 180-58680-1 180-53961-1 180-53961-1	180-5603-1 180-5533-1 180-58732-1 180-58732-1 180-54672-1 180-54674-1 180-54676-1 180-54676-1 180-54676-1 180-54676-1 180-54670-1 180-54670-1 180-6650-1 180-6650-1 180-6650-1 180-6681-1 180-64751-1 180-64751-1
Methylphenol, 3 & 4	5 & & & & & & & & & & & & & & & & & & &
Premium Solvent	Solvent Solven

	2015 2016 2016 2016 2016 2016 2016 2016
Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Barre Barre Barre Charlotte Chesapeake Chester Charlotte Chester Charlotte Chester Charlotte Chester Charlotte Charlotte Chester Charlotte Chester Charlotte Chester Charlotte Chester Clackamas Cohoes Grand Island Kaukauna Kaukauna Raleigh St Pauls Syracuse Tulsa Waukesha	Vinton Albuquerque Boise Chandler Charlotte Chester Clackamas Farmington Kaukauna Kaukauna
7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E 7/6E	7/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-65696-1 180-69242-1 180-69237-1 180-68219-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-68919-1 180-4796-1 180-4338-1 180-4338-1 180-4357-1 180-4357-1 180-4357-1 180-43510-1 180-43511-1 180-43511-1 180-43511-1 180-4365-1 180-4365-1 180-4568-1	180-51271-1 180-58744-1 180-52494-1 180-5394-1 180-58680-1 180-58685-1 180-53963-1 180-53963-1
Methylphenol, 3 & 4 Methyl	Nitrobenzene
Premium Solvent	

2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	
Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha	Waukesha Waukesha Waukesha Waukesha Abuquerque Archdale Avon Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Ayon Omaha Raleigh St Pauls Syracuse Vinton Waukesha Wichita Avon Barre Cohoes Lackawanna Archdale Barre Boise Cohoes	
85		
94		
1,6 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000	
180-57964-1 180-5533-1 180-58138-1 180-58732-1 180-54672-1 180-54672-1 180-54672-1	180-54678-1 180-54678-1 180-54680-1 180-65687-1 180-6563-1 180-65928-1 180-69209-1 180-69209-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69242-1 180-69241-1 180-69819-1 180-69819-1 180-69895-1 180-69895-1 180-69895-1 180-4338-1 180-43688-1 180-43688-1 180-43688-1 180-4338-1 180-44373-1 180-44373-1 180-442767-1 180-44373-1 180-44373-1	
Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene	Nitrobenzene Nitro	
Premium Solvent	Premium Solvent	

2015 2015 2015 2015 2015 2015 2015 2015	2015 2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Kaukauna Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha	Wichita Farmington Sacramento Vinton Albuquerque Boise Charlotte Charlotte Charlotte Clackamas Farmington Kaukauna Kaukauna Kaukauna St. Pauls Syracuse	Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Ch
		85
		64
51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	20000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,500 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	7,6m 1,0m 1,0m 1,0m 1,0m 1,0m 1,0m 1,0m 1,0	7/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u 2/6u
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065
0.000000000000000000000000000000000000	6.000000000000000000000000000000000000	2.00.000000000000000000000000000000000
180-43105-1 180-43107-1 180-45021-1 180-45021-1 180-46329-1 180-44558-1 180-48055-1 180-48055-1	180-5736-1 180-51966-1 180-51271-1 180-5244-1 180-53434-1 180-5880-1 180-5880-1 180-5886-1 180-53961-1 180-53962-1 180-53963-1 180-53963-1 180-53963-1 180-53963-1	180-58138-1 180-58732-1 180-58732-1 180-54672-1 180-54675-1 180-54677-1 180-54677-1 180-54678-1 180-54679-1 180-65697-1 180-65693-1 180-65693-1 180-65928-1 180-65928-1 180-65928-1 180-6413-1 180-65928-1 180-6415-1 180-64751-1 180-64752-1
Pentachlorophenol	Pentachlorophenol	Pentachlorophenol
Solvent		

2017 2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2015 2015 2015 2015 2015 2015	2017 2016 2016 2017 2017 2017 2016 2016 2016	2015 2017 2017 2017 2017 2017 2015 2017 2015 2015 2015
Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Waukesha Waukesha	Chesapeake Cohoes Lackawanna Archdale Barre Sacremento Wichita Vinton Farmington Kaukauna Kaukauna Farmington Tampa Cohoes	Avon Lackawanna Chandler Clackamas Lackawanna Waukesha Avon Chesapeake Omaha Waukesha Waukesha	Sacramento Chesapeake Syracuse Chester Albuquerque Archdale Chandler Chesapeake Waukesha Chester St. Pauls Raleigh Cohoes Syracuse St Pauls Clackamas Clackamas Charlotte Tulsa
0.000000000000000000000000000000000000	6.00.00.00.00.00.00.00.00.00.00.00.00.00	00000000000000	00000000000000000
	DDDDDII IIII	x x x x x x	ETT TTT T T TTTTT
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	SU MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L		
0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.09 4.55 5.2 5.2 5.6 5.67 5.67 5.67	5.8 5.8 6.2 6.2 6.2 6.3 6.3 7.4 6.3 7.4	6.38 6.38 6.44 6.55 6.55 6.55 6.60 6.60 6.60
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.13 0.13 0.13 0.13 0.13 6.12 5.22 5.25 5.67 5.67 5.77	6.34 6.37 6.38 6.29 6.33 7.33 7.34 7.34	6.34 6.43 6.55 6.55 6.55 6.60 6.60 6.60 6.60 6.60
180-69237-1 180-68772-1 180-65396-1 180-6253-1 180-68919-1 180-68925-1 180-68925-1	180-60012-1 180-59840-1 180-60895-1 180-60618-1 180-58611-1 180-5685-1 180-5685-1 180-43105-1 180-5138-1 180-58138-1	180-55693-1 180-5969-1 180-58680-1 180-65696-1 180-60141-1 180-69237-1 180-54677-1	180-48055-1 180-49236-1 180-60012-1 180-44373-1 180-66650-1 180-66650-1 180-64613-1 180-5603-1 180-5603-1 180-6598-1 180-65396-1 180-44139-1 180-44139-1
Pentachlorophenol	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol PH PH PH PH PH PH PH PH PH	: E	
Premium Solvent	Premium Solvent	Premium Solvent	Premium Solvent

2015 2016 2015 2017 2017 2016 2016 2016	2017 2015 2015 2015 2015 2016 2015 2015 2015 2015 2015 2015 2015 2015	
Archdale Waukesha Vinton Clackamas Raleigh Syracuse Waukesha Kaukauna Oklahoma City	Waukesha Archdale Lackawanna Oklahoma City Albuquerque Barre St Pauls Charlotte Sacremento Waukesha Waukesha Omaha Boise Omaha Boise Omaha Boise Omaha Charlotta Barre Raukauna Cohoes Tulsa Waukesha Wichita Barre Kaukauna Cohoes Tulsa Kaukauna Cohoes Cohandler Cinton Waukesha Kaukauna Cohandler Cinton Barre Boise Charlotte Chester Clackamass	Conoes Grand Island
00000000		റഹ
TTTT T	TTTT TT T	o
		mg/L mg/L
6.72 6.76 6.78 6.8 6.81 6.83 6.83	7 7.102 7.102 7.103 7.103 7.103 7.103 7.103 7.103 7.103 7.103 8.104 8.104 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.105 9.10	2.5
6.72 6.78 6.8 6.8 6.81 6.83 6.83	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	വവ
180-42767-1 180-54674-1 180-51271-1 180-69209-1 180-70392-1 180-43687-1 180-53962-1 180-69242-1	180-68919-1 180-42631-1 180-45021-1 180-45021-1 180-58334-1 180-58334-1 180-58611-1 180-58611-1 180-58611-1 180-58611-1 180-54680-1 180-54680-1 180-54680-1 180-54680-1 180-54680-1 180-54680-1 180-53963-1 180-64756-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-633961-1 180-63338-1 180-64752-1 180-64752-1 180-64752-1 180-64752-1 180-4365-1 180-43655-1 180-4365-1	180-43576-1 180-44223-1
포포포포포포포포		Pyridine Pyridine
Premium Solvent	Premium Solvent	Premium Solvent Premium Solvent

2015 2015 2015 2015 2015 2015 2015 2015	
Kaukauna Kaukauna Lackawanna Ohahama City Omaha St Pauls St Pauls St Pauls Syracuse Tulsa Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Chandler Cha	
88	
64	
1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
55-1 56-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1 57-1	
180-43105-1 180-43105-1 180-43631-1 180-42021-1 180-4228-1 180-4228-1 180-48057-1 180-48057-1 180-48057-1 180-53963-1 180-5396-1 180-5396-1 180-5396-1 180-5396-1 180-5396-1 180-5396-1 180-5467-1 180-5467-1 180-5467-1 180-5467-1 180-5669-1 180-5669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1 180-6669-1	
Pyridine	
Premium Solvent	
Premium Premiu	

	W W	и	
2017 2017 2017 2017 2017 2017 2017 2017	2015 2016 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2015 2015 2015	5
Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre St Pauls Wulkesha Waukesha	Cohoes Chester Kaukauna St Pauls Waukesha Kaukauna Archdale Avon Barre Boise Charlotte Charlotte Chesapeake Grand Island	Clario Island Kaukauna Lackawanna Oklahoma City Omaha Raleigh Syracuse Tulsa Waukesha Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Chandler	) [2] [4]
~	* * * * * * * * * * * * * * * * * * * *		-
	, , ^m , , , , , , , , , , , , , , , , , , ,		5
7/5w 1/5m 1/5m 1/5m 1/5m 1/5m 1/5m 1/5m 1/5m	7/6ш 7/6ш 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7		⊞g/∟
255 255 255 255 255 255 255 255 255 255	0.37 0.38 0.39 0.41 0.5 0.5 0.5 0.5 0.5		D.
55 55 50 50 50 50 50 50 50 50 50 50 50 5	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		_
180-69237-1 180-68772-1 180-68772-1 180-65396-1 180-68919-1 180-68925-1 180-68925-1 180-60141-1 180-59840-1 180-59840-1 180-59869-1 180-59685-1 180-59685-1 180-59685-1 180-59685-1 180-59685-1	180-43576-1 180-4373-1 180-68772-1 180-68924-1 180-53963-1 180-42767-1 180-43688-1 180-4357-1 180-44139-1 180-4423-1	180-44223-1 180-43105-1 180-43107-1 180-45021-1 180-4529-1 180-4558-1 180-48055-1 180-48055-1 180-48055-1 180-47813-1 180-51966-1 180-51271-1 180-53494-1 180-58394-1 180-58394-1 180-58680-1	180-57964-1
Pyridine Selenium Selenium Selenium	Selenium	Selenium	Selenium
Premium Solvent	Premium Solvent	Premium Solvent	Premium Solvent

ls 2016 se 2016 ha 2016 ha 2016 ha 2016 ha 2016 ha 2016	ade 2017  er 2017  er 2017  s s 2017  ton 2017  and 2017	
St. Pauls Syracuse Tampa Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha	Albuquerque Archdale Avon Chandler Chandler Chandler Cohoes Farmington Grand Island Kaukauna Lackawanna Oklahoma City Omaha Raleigh Syracuse Vinton Waukesha Avon Chesapeake Cohoes Lackawanna Archdale Barre Kaukauna Archdale Boise Wichita Clackamas Sacremento Archdale Boise Clackamas Sacremento Archdale Clackamas Sacremento Archdale Clackamas Sacremento Archdale Clackamas Sacremento Waukesha Sacremento Waukesha Avon Barre Boise Chandler	Chesapeake
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.50
		o
		0.25 mg/L 0.25 mg/L
7777777777		o o
180-56003-1 180-5533-1 180-58138-1 180-58266-1 180-54673-1 180-54676-1 180-54676-1	180-66650-1 180-65687-1 180-65692-1 180-69209-1 180-69209-1 180-65928-1 180-65928-1 180-65928-1 180-6596-1 180-65396-1 180-69225-1 180-60141-1 180-6012-1 180-6012-1 180-6012-1 180-6012-1 180-6012-1 180-6012-1 180-6012-1 180-6012-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1 180-6018-1	180-44139- 180-48655-
Selenium	3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ent Silver ent Silver
Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent	Premium Solvent	Premium Solvent Premium Solvent

	2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2016 2016	
Chester Cohoes Grand Island Kaukauna Kaukauna Lackawanna Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa	Waukesha Waukesha Wichita Sacramento Vinton Albuquerque Boise Chandler Chandler Charlotte Charlotte Charlotte Clackamas Farmington	Kaukauna Kaukauna Kaukauna Omaha St. Pauls Syracuse Tampa Tulsa Vinton Waukesha	Waukesha Waukesha Waukesha Waukesha Waukesha Abuquerque Archdale Avon Chandler Chandler Chesapeake Clackamas Cohoes Farmington Grand Island Kaukauna Kaukauna Kaukauna Chackamas
		8	}
		0.4	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2222222222	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2,4 mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
00000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000
180-44373-1 180-43576-1 180-43105-1 180-43107-1 180-43631-1 180-45621-1 180-4558-7 180-4558-7	180-48056-1 180-48057-1 180-47813-1 180-51271-1 180-58774-1 180-53494-1 180-53494-1 180-53494-1 180-54771-1	180-53961-1 180-53962-1 180-57964-1 180-56003-1 180-5533-1 180-58732-1 180-58732-1 180-58266-1	180-54674-1 180-54674-1 180-54677-1 180-54677-1 180-65650-1 180-65633-1 180-65928-1 180-65928-1 180-64752-1 180-64752-1 180-64752-1 180-64752-1
		\$\frac{1}{2}\$\$ \$\frac	
Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver
ल ल ल ल ल ल ल ल ल ल ल ल ल ल ल	ଉ ଉ ଉ ଉ ଉ ଉ ଉ ଉ ଉ ଉ ଉ	w w w w w w w w w w	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solven	Solvent	Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent	Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solvent Solven
Premium S		Premium S	Premium Solvent

2017 2017 2017 2017 2017 2017 2017 2017
Omaha Raleigh St Pauls Syracuse Vinton Waukesha Waukesha Wichita Avon Chesapeake Cohoes Lackawanna Archdale Barre Sacremento Wichita Lackawanna Archdale Chandler Farmington Tulsa Archdale Chandler Clackamas Archdale Kaukauna Clackamas Avon Kaukauna Clackamas Avon Kaukauna Chester Chester Waukesha Chester Waukesha Farmington
0.55 0.25 0.25 0.25 0.25 0.25 0.25 0.25
0.25 0.25 0.25 0.25 0.25 0.25 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125
0.5 0.5 0.5 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.5
180-69237-1 180-69237-1 180-68772-1 180-6836-1 180-68319-1 180-68919-1 180-68919-1 180-68919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1 180-6919-1
Silver Si
Premium Solvent

2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015
Syracuse Waukesha St. Pauls Charlotte Grand Island Omaha Charlotte Grand Island Tampa Waukesha Waukesha Waukesha Vinton Chandler Avon Farmington Kaukauna Avon Tulsa Omaha Cohoes Vinton Tulsa Omaha Cohoes Waukesha Archdale Raleigh Waukesha Archdale Raleigh Waukesha Chesapeake Barre Barre Barre Barre Chesapeake Chesapeake Vinton Tulsa Omaha Avon Lackawanna Omaha Avon Barre Barre Barre Boise Chesapeake	Chester Cohoes Grand Island Kaukauna Kaukauna Lackawanna
85	
64	
0.5 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0	0.25 0.25 0.25 0.25 0.25 0.25
ш ээээээ:	
7/5cm 2/5cm	mg/L mg/L mg/L mg/L
2.1.2 2.1.2 2.2.0 3.3.8 4 4.3.3.9 3.3.8 4.3.3 3.3.8 4.3.3 3.3.8 3.3.8 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.3.0 3.	0.125 0.125 0.125 0.125 0.125 0.125
1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.25 0.25 0.25 0.25 0.25
2.5 1 1 1 1 1 1 1	73-1 76-1 23-1 05-1 31-1
180-55533-1 180-68924-1 180-68924-1 180-68924-1 180-44139-1 180-44223-1 180-44223-1 180-44223-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-58394-1 180-48555-1 180-48655-1 180-43577-1 180-43655-1	180-44373-1 180-43576-1 180-44223-1 180-43105-1 180-43631-1
Tetrachloroethene Tirchloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene
** ** ** ** ** ** ** ** ** ** ** ** **	Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent
Premium	Premium Premium Premium Premium Premium

2022 2025 2025 2025 2025 2025 2025 2025	2017 2017 2017 2017 2017
Oklahoma City Omaha Raleigh St Pauls Syracuse Tulsa Waukesha Waukesha Wichita Farmington Sacramento Vinton Albuquerque Boise Charlotte Clackamas Farmington Kaukauna Omaha Tulsa Vinton Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Waukesha Arukauna Clackamas Chandler Chesapeake Clackamas Chandler Avon Chand	Vinton Waukesha Waukesha Wichita
8	
49	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	00000
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125	0.125 0.125 0.125 0.125 0.125
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25
180-45021-1 180-45021-1 180-43687-1 180-48055-1 180-48055-1 180-48055-1 180-48055-1 180-48055-1 180-48057-1 180-53494-1 180-53494-1 180-53494-1 180-53494-1 180-53494-1 180-53833-1 180-54672-1 180-54677-1 180-54677-1 180-54678-1 180-54678-1 180-54678-1 180-54678-1 180-54679-1 180-54679-1 180-54679-1 180-54679-1 180-648113-1 180-65687-1 180-65687-1 180-65687-1 180-65687-1 180-65681-1 180-65681-1 180-65681-1 180-64752-1 180-64752-1 180-64752-1 180-64752-1 180-64752-1	180-66253-1 180-68919-1 180-68924-1 180-68925-1 180-64796-1
Trichloroethene	Trichloroethene Trichloroethene Trichloroethene Trichloroethene
	Premium Solvent Premium Solvent Premium Solvent Premium Solvent Premium Solvent

3		
2017 2017 2017 2017 2017 2017 2016 2016 2016 2016 2016	2015 2015 2015 2015 2015 2015 2015 2015	2015 2016 2016 2016 2016 2016 2016 2016 2016
Avon Chesapeake Cohoes Lackawanna Archdale Barre Raleigh Clackamas Kaukauna St. Pauls Syracuse Kaukauna Chester	Archdale Avon Barre Boise Chandler Charlotte Chesapeake Chester Cohoes Grand Island Kaukauna Waukauna Omaha Kaukauna Kaukauna Kaukauna Vaukauna Omaha Kaukauna Vaukauna Omaha Kaukauna	Sacramento Vinton Albuquerque Boise Chandler Charlotte Chester Clackamas Farmington Kaukauna Caukauna Tampa Tulsa Vinton Waukesha Waukesha
10 10 10 10 10 10 10 10 10		
0.25 0.25 0.25 0.25 0.25 0.25 0.5 0.5 0.5 0.5	000000000000000000000000000000000000000	0000000000000000
4		
22222222		
7,5 7,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1	7/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u	1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6
0.125 0.125 0.125 0.125 0.125 0.15 0.25 0.25 0.25	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.05 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
0.25 0.25 0.25 0.25 0.25 0.15 0.5 0.5 0.5	666666666666666666666666666666666666666	200000000000000000
180-60141-1 180-60012-1 180-59840-1 180-60895-1 180-60618-1 180-7754-1 180-53962-1 180-5533-1 180-5533-1	180-42767-1 180-43688-1 180-43688-1 180-43577-1 180-44139-1 180-44373-1 180-4373-1 180-4323-1 180-4323-1 180-4361-1 180-456-1 180-456-1 180-456-1 180-456-1 180-456-1 180-4456-1 180-4456-1 180-48055-1 180-48055-1 180-48055-1 180-48055-1	180-54525 180-51271-1 180-51271-1 180-52527-1 180-5394-1 180-58394-1 180-58680-1 180-58680-1 180-58680-1 180-53961-1 180-53961-1 180-53961-1 180-53961-1 180-58138-1 180-58732-1 180-58732-1 180-58732-1 180-54672-1
Trichloroethene	Vinyl Chloride	Vinyl Chloride
Premium Solvent		

Waukesha 2016		Waukesha 2016				வ	(I)			45	(J)			0					Ξŧ		Raleigh 2017						æ			é		g	d)		_		_		Syracuse 2016
						49 82																																	
0.1	0 0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0 1	0.1	0.15	0.2	0.2	0.2	0.2
ם :	) :	⊃ :	⊃	⊃ ¹	<b>D</b>	n	⊃	⊃	⊃	⊃	D	D	⊃	ם	D	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	n	n	⊃	⊃	⊃	⊃	⊃	⊃	⊃	D	⊃	⊃	כ	⊃	⊃	D .
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L																				
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.075	0.1	0.1	0.1	0.1
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.2	0.2	0.2	0.2
180-54675-1	180-54676-1	180-54677-1	180-54678-1	180-54679-1	180-54680-1	180-66650-1	180-65687-1	180-65693-1	180-64613-1	180-70321-1	180-69209-1	180-65928-1	180-68416-1	180-70383-1	180-64751-1	180-64752-1	180-64753-1	180-65696-1	180-69242-1	180-69237-1	180-70392-1	180-68772-1	180-65396-1	180-66253-1	180-68919-1	180-68924-1	180-68925-1	180-64796-1	180-60141-1	180-60012-1	180-59840-1	180-59969-1	180-60895-1	180-60618-1	180-58611-1	180-47754-1	180-53962-1	180-56003-1	180-55533-1
Vinyl Chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride																				
Premium Solvent		Premium Solvent	Premium Solvent	Premium Solvent	Premium Solvent		Premium Solvent																																

PARAMETER	LAB_SAMPLE_ID RESULT UNITS QUALIFIER REPORTING LIMIT FACILITY YEAR
1,4-Dichlorobenzene Average	0.16167
2,4,5-Trichlorophenol Average	0.22
2,4,6-Trichlorophenol Average	0.16
2,4-Dinitrotoluene Average	. 0.42429
Arsenic Average	0.885
Barium Average	2.45641
Benzene Average	3.96421
Cadmium Average	0.12487
Chromium Average	0.4742
Flash Point Average	151.638
Hexachlorobutadiene Average	0.25
Hexachloroethane Average	1.7
Lead Average	5,43133
Mercury Average	0.02569
Methyl Ethyl Ketone Average	9.18333
pH Average	6.92171
Selenium Average	0.42667
Silver Average	0.1045
Tetrachloroethene Average	850.894
Trichloroethene Average	2.03667
Grand Average	131.188

YEAR	0.00	2016	2016	2016	2016	2016	2015	2015	2013	2013	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2013	2013	2016	2010	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016
	חשוושווט	Fresno	Los Angeles	Chandler	Los Angeles	Sacramento	Archdale	Вате	Donogo	Chandler	Charlotte	Chesapeak	Chester	Clackamas	Los Angeles	Oklahoma City	Raleigh	Salt Lake City	St Pauls	Tulsa	Waukesha	Wichita	Barre	Chandler	Chester	Clackamas	Tallahassee	Albuquerque	Farmington	Fresno	Fresno	Sacramento	Vinton	Farmington	Sacramento	VINTON	Albuquerque	Roise	Chandler	Charlotte	Chester	Clackamas	Farmington	Highland	Sacramento	Salt Lake City	Santa Ana	St. Pauls	Tampa	Tulsa	Vinton	Chester	Clackamas	Farmington	Vinton
COUNT																																																				83			
Uth VALUE																																																				53			
QUALIFIER REPORTING LIMIT UTH VALUE COUNT	7.0	0.2		0.2	0.2	0.2	0.5		C. C.	0.5	0.5		0.5		0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		O.5	C. C.		) C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5
QUALIFIER	o :	0	<b>)</b>	<b>⊃</b> '	⊃	<b>)</b>	O :	o :	<b>&gt;</b> =	o :	⊃ :	⊃:	<b>)</b> :	コ	⊃	)	⊃	)	n	D	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	*	⊃	⊃	<b>⊃</b> :	<b>⊃</b> :	* :	⊃ :	⊃ :	o =	<b>)</b>	> =	> =	) =	) ⊃	· ⊃	) )	) )	⊃	$\supset$	D	⊃	⊃	D	D	<b>ɔ</b> :	<b>)</b>	<b>D</b>
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RANKED DATA	0.1	0.1	0.1	0.1	0.1	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.73	0.23	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
RESULT	0.7	0.2	0.2	0.2	0.2	0.2	0.5	0.5	C. 0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.0	0 0		0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	180-4/8/0-1	180-58510-1	180-57951-1	180-58227-1	180-58024-1	180-58643-1	180-43674-1	180-48436-1	180-42952-1	180-42430-1	180-44140-1	180-48623-1	180-44375-1	180-47750-1	180-46521-1	180-45023-1	180-46331-1	180-43575-1	180-48170-1	180-44553-1	180-48058-1	180-47811-1	180-48520-1	180-43584-1	180-44377-1	180-47748-1	180-48519-1	180-49523-1	180-51441-1	180-49253-1	180-49518-1	180-49235-1	180-51268-1	180-51440-1	180-49234-1	180-51270-1	180-58742-1	180-55534-1	180-52547-1	100-03482-1	180-54775-1	180-58671-1	180-56458-1	180-58737-1	180-58659-1	180-53844-1	180-58153-1	180-56002-1	180-58141-1	180-58731-1	180-58271-1	180-54776-1	180-58677-1	180-56412-1	180-58270-1
PARAMETER	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1 1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene
MATRIX	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Waste	Paint Waste	Paint Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Waste	Paint Waste	Paint Waste	Paint Waste	Paint Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Waste	Paint Waste	Paint Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Guil Cleaner Nelated Waste		Paint Gun Cleaner Related Waste	- E	Paint Gun Cleaner Related Waste	Gun	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Waste	Paint Waste	Paint Waste	Paint Waste

	) 10 10 10 10
2015 5 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2015 2015 2015 2015 2015
Archdale Boise Chesapeake Clackamas Chandler Conardler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Clackamas Los Angeles Chandler Chandl	Waukesha Wichita Barre Chandler
0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	0.00 0.00 0.00 0.00
	2222
	7,6 mg/L mg/L
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25
00000000000000000000000000000000000000	0.5 0.5 0.5 0.5
180-65692-1 180-66032-1 180-68704-1 180-65188-1 180-69211-1 180-69211-1 180-69211-1 180-68211-1 180-68211-1 180-68211-1 180-68211-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68611-1 180-68638-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1 180-68611-1	180-48058-1 180-48058-1 180-47811-1 180-43584-1
1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroe	1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane
Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste

Chester 2015 Raleigh 2015 Raleigh 2015 Raleigh 2015 Albuquerque 2015 Fresno 2015 Fresno 2015 Fresno 2015 Fresno 2015 Vinton 2015 Vinton 2015 Vinton 2015 Vinton 2015 Vinton 2015 Vinton 2016 Abuquerque 2016 Archdale 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Rarmington 2016 Farmington 2016 Santa Ana 2016 Santa Ana 2016 Santa Ana 2016 Chester 2016 Clackamas 2016 Farmington 2016 Tulsa 2016 Tulsa 2016 Tulsa 2016 Tulsa 2016 Tulsa 2016 Tulsa 2016 Vinton 2016 Vinton 2016 Vinton 2016 Vinton 2016 Vinton 2016 Vinton 2016	a a s s s s s s s s s s s s s s s s s s
88	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7/6E E E E E E E E E E E E E E E E E E E	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-44377-1 180-46330-1 180-48519-1 180-49523-1 180-49518-1 180-49518-1 180-4923-1 180-51440-1 180-51440-1 180-51440-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51269-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1 180-5123-1	180-65692-1 180-66032-1 180-65188-1 180-69211-1 180-69212-1 180-69240-1 180-6838-1 180-68464-1 180-68464-1 180-68538-1 180-68566-1 180-67818-1 180-6257-1 180-6261-1 180-68957-1 180-68957-1
1,2-Dichloroethane	1,2-Dichloroethane
	Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste

2017 2017 2017 2017 2017 2017 2015	2015 2016 2016 2016 2016 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2016 2016
Barre Barre Chesapeake Sacramento Salt Lake City Sacramento Santa Ana Raleigh	Highland Fresno Los Angeles Chandler Los Angeles Sacramento Archdale Barre Boise Charlotte Clackamas Tulsa Waukesha Wichita Chester Clackamas Tallahassee Albuquerque Farmington Fresno Sacramento Vinton Farmington Fresno Sacramento Vinton Fresno Sacramento Charlotte	Tulsa Vinton
0.5 0.5 0.5 20 200 800 830	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.5
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/L U
0.25 0.25 0.25 1 10 100 400 415		0.25
0.5 0.5 0.5 2 20 200 800 830	20000000000000000000000000000000000000	0.5
180-60751-1 180-60754-1 180-60017-1 180-70518-1 180-5251-1 180-52262-1 180-70390-1	180-47870-1 180-58510-1 180-58510-1 180-58527-1 180-58643-1 180-58643-1 180-43674-1 180-4357-1 180-4357-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-49553-1 180-58737-1 180-58737-1 180-58402-1 180-58402-1 180-58402-1 180-58475-1 180-58402-1 180-58477-1 180-584341-1 180-584341-1 180-584341-1 180-584341-1 180-584341-1 180-58441-1 180-58441-1 180-58441-1	180-58731-1 180-58271-1
1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	1,4-Dichlorobenzene	1,4-Dichlorobenzene 1,4-Dichlorobenzene
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017 2015 2015 2015 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
	Conesapeane Los Angeles Raleigh Barre Sacramento Chandler Santa Ana Vinton Salt Lake City Sacramento Santa Ana Raleigh Highland Santa Ana Chandler Los Angeles Sacramento Sarramento Satt Lake City Sarramento Raleigh Archdale Barre Boise Chandler
82	
83	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.05 0.05 0.05 0.05 0.0
	orr o poppoppoppoppop*o
7/56 E E E E E E E E E E E E E E E E E E E	
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.35 0.38 0.53 1.5 1.0 100 400 415 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025
	0.55 0.38 0.53 0.53 2.11 2.11 2.00 8800 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
180-54776-1 180-58677-1 180-56412-1 180-6592-1 180-65032-1 180-65188-1 180-69211-1 180-69211-1 180-69212-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-69815-1 180-60115-1 180-60115-1 180-60115-1	180-60017-1 180-68464-1 180-48520-1 180-43584-1 180-58153-1 180-66261-1 180-66261-1 180-70518-1 180-6262-1 180-6262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-62262-1 180-70518-1 180-70518-1 180-4436-1 180-4436-1 180-4436-1 180-4436-1
1,4-Dichlorobenzene	1,4-Dichlorobenzene 1,4-Dichloropenzene 1,4-Dichlorophenol 2,4,5-Trichlorophenol
Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

N (N	מ מ מ מ מ מ מ מ מ מ	, w w w w w w w w w w	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2015 2015 2015		
Los Angeles Oklahoma City Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Barre Chandler Chandler Clackamas	Tallahassee Albuquerque Farmington Fresno Fresno Fresno Sacramento Vinton Farmington Sacramento	Albuquerque Archdale Boise Chandler Charlotte Chester Clackamas Farmington Highland Sacramento Salt Lake City	St. Pauls Tampa Tulsa Vinton Chester Clackamas Farmington Vinton Archdale Boise Chandler Chesapeake Clackamas Samigton Los Angeles Los Angeles Cos A
			8
			23
0.000000000000000000000000000000000000	£1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
*			
mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L		
E E E E E E E E E E E			
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065	0.0055 0.0055 0.0055 0.0055 0.0055 0.0055	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065
	00000000000		
0.00.00 £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	2000 2000 2000 2000 2000 2000 2000 200	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	<b></b>		
180-46521-1 180-46521-1 180-46331-1 180-48170-1 180-4853-1 180-4853-1 180-48520-1 180-4377-1 180-4377-1	180-48519-1 180-48523-1 180-49253-1 180-49253-1 180-49235-1 180-51268-1 180-51268-1	180-51270-180-58742-1 180-52547-1 180-53492-1 180-54775-1 180-58671-1 180-58659-1 180-58659-1 180-58454-1	180-58153-1 180-58002-1 180-58171-1 180-58771-1 180-5877-1 180-5877-1 180-68277-1 180-68212-1 180-68212-1 180-68212-1 180-68212-1 180-68212-1 180-68212-1 180-68212-1
2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol 2.4,5-Trichlorophenol	2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol	2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol 2.4.5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol
Trichlo	Trichlo Trichlo Trichlo Trichlo Trichlo Trichlo	- incho	
	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Waste	Waste Waste Waste Waste Waste	Paint Waste Gun Cleaner Related Waste	Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Paint Waste Paint Waste Paint Waste Cleaner Related Waste Paint Waste Cleaner Related Waste
Related	Isterated Related Isterated Related	sste Related Related Related Related Related Related Related Related	Related Related Related Related Related aste aste aste Related
Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste Paint Waste	Paint Waste Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste	Paint Waste Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk Cleaner Relk	Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste Paint Waste Cleaner Rela Cleaner Rela
Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste	Paint Waste Paint Gun Cleaner Related Waste Paint Waste		
Paint Paint Paint Paint Paint Paint	Paint Paint Paint Paint Paint	Paint Paint Paint Paint Paint Paint Paint Paint	Paint

> >	Farmington 2015 Fresno 2015 Fresno 2015 Sacramento 2015 Vinton 2015 Sacramento 2015 Vinton 2015 Albuquerque 2016 Archdale 2016
0.000000000000000000000000000000000000	0.13 0.13 0.13 0.13 0.13 0.13 1.0 0.13
	mg/L 0 0 1/gm mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
សសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសសស	
2,4,5-Trichlorophenol 180-68566-1 2,4,5-Trichlorophenol 180-68257-1 2,4,5-Trichlorophenol 180-68257-1 2,4,5-Trichlorophenol 180-68257-1 2,4,5-Trichlorophenol 180-68257-1 2,4,5-Trichlorophenol 180-68957-1 2,4,5-Trichlorophenol 180-68015-1 2,4,5-Trichlorophenol 180-60015-1 2,4,5-Trichlorophenol 180-60015-1 2,4,5-Trichlorophenol 180-60015-1 2,4,5-Trichlorophenol 180-60017-1 2,4,5-Trichlorophenol 180-60017-1 2,4,5-Trichlorophenol 180-68243-1 2,4,5-Trichlorophenol 180-58210-1 2,4,5-Trichlorophenol 180-58210-1 2,4,5-Trichlorophenol 180-58210-1 2,4,5-Trichlorophenol 180-68433-1 2,4,5-Trichlorophenol 180-70518-1 2,4,5-Trichlorophenol 180-70518-1 2,4,5-Trichlorophenol 180-42430-1 2,4,5-Trichlorophenol 180-48252-1 2,4,5-Trichlorophenol 180-48252-1 2,4,5-Trichlorophenol 180-4852-1 2,4,5-Trichlorophenol 180-48520-1 2,4,5-Trichloro	180-51441-1 180-49253-1 180-49235-1 180-51268-1 180-51240-1 180-51270-1 180-55534-1
Paint Gun Cleaner Related Waste 2,4,5- Paint Waste Paint Gun Cleaner Related Waste 2,4,5- Paint Gun Cleaner Related Waste 2,4,5- Paint Waste 2,4,5- Paint Gun Cleaner Related Waste	Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste

2016 2016 2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	
Boise Chandler Charlotte Chester Clackamas Farmington Highland Sacramento Sacramento Salt Lake City	Tampa Tulsa Vinton Chester Clackamas Farmington Vinton Archdale Boise Chandler Chesapeake Clackamas Farmington Los Angeles Clackamas Farmington Los Angeles Santa Ana St Pauls St Pauls St Pauls St Pauls Vinton Vinton Vinton Vinton Vinton Vinton Waukesha Wichita Chesapeake Santa Ana Chandler Los Angeles Sacramento Salt Lake City Sacramento Sacramento Sacramento Sacramento	
00000000000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
<b></b>		
7/6ш 7/6ш 7/6ш 7/6ш 7/6ш 7/6ш	7/5u 7/5u 7/5u 7/5u 7/5u 7/5u 80 80 80 80 80 80 80 80 80 80 80 80 80	
0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	
21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
180-52547-1 180-53492-1 180-58402-1 180-58671-1 180-58737-1 180-58659-1 180-53844-1	180-58141-1 180-58731-1 180-58271-1 180-58412-1 180-58412-1 180-5821-1 180-6832-1 180-6832-1 180-68211-1 180-68211-1 180-68211-1 180-68212-1 180-68211-1 180-68212-1 180-68211-1 180-68211-1 180-68211-1 180-68211-1 180-68257-1 180-68257-1 180-68257-1 180-68257-1 180-68257-1 180-68251-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1	
2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	
	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	

Barre 2015 Boise Chandler Chandler 2015 Chandler 2015 Chesapeak 2015 Chesapeak 2015 Chesapeak 2015 Clackamas 2015 Los Angeles 2015 Clackamas 2015 Raleigh 2015 Sat Lake City 2015 Sat Lake City 2015 Sat Lake City 2015 Abuquerque 2015 Fresno 2016 Fresno 2016 Fresno 2016 Fresno 2016 Fresno 2016 Archdale 2016 Chandler 2016 Chester 2016 Clackamas 2016 Farmington 2016 Santa Ana 2016 Santa Ana 2016 Tulsa 2016 Tulsa 2016 Fremington 2016 Fremington 2016 Sat Pauls 2016 Fremington 2016 Fremington 2016 Fremington 2016 Vinton 2016	Vinton 2016 Archdale 2017 Archdale 2017 Boise 2017 Chandler 2017 Clackamas 2017 Clackamas 2017 Farmington 2017
23	
U U U U U U U U U U U U U U U U U U U	D D 2 D D D D D D D D D D D D D D D D D
7/8 7/8 7/8 7/8 7/8 7/8 7/8 7/8 7/8 7/8	1997 1997 1997 1997 1997 1997
	0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13
180-48436-1 180-42952-1 180-42430-1 180-44140-1 180-48623-1 180-4375-1 180-4552-1 180-4552-1 180-4553-1 180-48572-1 180-48572-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-48513-1 180-5844-1 180-5844-1 180-5844-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1	180-58270-1 180-65692-1 180-66032-1 180-68704-1 180-65188-1 180-69211-1 180-68915-1
2,4-Dinitrotoluene 2,4-Dinitroto	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Wast	Paint Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste

El .		
2017 2017 2017 2017 2017 2017 2017 2017	2016 2016 2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2015 2015 2015
Los Angeles Los Angeles Oklahoma City Raleigh Salisbury Santa Ana St Pauls St Pauls Vinton Vinton Waukesha Wichita Chesapeake Chesapeake Barre Barre Chesapeake	Fresho Los Angeles Chandler Farmington Highland Santa Ana Los Angeles Sacramento Satt Lake City Sacramento Chandler Fresho Raleigh Archdale Barre Boise Chandler Chesapeak Chesapeak Chester Clackamas	Character City Salt Lake City Salt Lake City Salt Lake City St Pauls Tulsa Waukesha Wichtia Barre Chester Chester Raleigh Tallahassee Albuquerque Farmington Fresno
9 A		5 
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000	0.25 0.13 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	
	בברבבבב בכבכבבפב	
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7,650 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777 1,777	7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.125 0.125 0.125 0.025 0.025 0.025 0.025 0.025 0.0365 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	
180-68638-1 180-68464-1 180-69240-1 180-70391-1 180-67818-1 180-68566-1 180-6856-1 180-6856-1 180-6857-1 180-68957-1 180-60016-1 180-60015-1 180-60015-1 180-60751-1	180-58510-1 180-57951-1 180-43584-1 180-69824-1 180-52262-1 180-58024-1 180-58024-1 180-5827-1 180-5827-1 180-58510-1 180-436-1 180-42430-1 180-42430-1 180-42430-1 180-42430-1 180-42430-1 180-44140-1 180-44375-1	180-46521-1 180-46531-1 180-46331-1 180-44553-1 180-44553-1 180-4457-1 180-43584-1 180-43584-1 180-4937-1 180-49519-1 180-49523-1 180-49523-1
2,4-Dinitrotoluene	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol	2-Methylphenol
Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

2016 2016 2016 2016 2016 2016 2016 2016	2015 2016 2016 2017 2016 2017 2017 2017 2017 2017 2017 2017 2017	2017
Sacramento Vinton Farmington Sacramento Vinton Albuquerque Archdale Boise Chandler Chandler Charlotte	Salt Lake City Santa Ana St. Pauls Tampa Tulsa Vinton Chester Clackamas Farmington Vinton Archdale Boise Chandler Chesapeake Clackamas Farmington Los Angeles Los Angeles Los Angeles Santa Ana St Pauls Vinton Waukesha Wichita Chesapeake Santa Ana	Farmington
	68	
<u> </u>		
		0.1
7,65 7,65 7,65 7,65 7,65 7,65 7,65 7,65		mg/L
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0.11
		0.11
35-1 68-1 70-1 70-1 77-1 77-1 77-1 77-1 77-1 77	53-1 22-1 22-1 22-1 22-1 22-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1 23-1	24-2
180-49235-1 180-51268-1 180-51440-1 180-49234-1 180-58742-1 180-5534-1 180-58402-1 180-58671-1 180-58659-1 180-58559-1	180-53844-1 180-58153-1 180-58141-1 180-58171-1 180-58731-1 180-58771-1 180-65870-1 180-658270-1 180-65828-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1	180-69824-2
2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol	Arsenic
2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-Mett 3-	2-Mett 2-Mett 2-Mett 2-Mett 2-Mett 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Met 2-Me	×
aste aste aste aste aste aste aste aste	aste aste aste aste aste aste aste aste	
Cleaner Related Waste Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste	Cleaner Related Waste Paint Waste Paint Waste Paint Waste Cleaner Related Waste Paint Waste Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste Cleaner Related Waste Paint Waste Cleaner Related Waste Clea	) (I)
Cleaner Related Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Cleaner Related Cl	Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste Cleaner Rela Paint Waste Cleaner Rela Cleaner Rela	Paint Waste
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Pair
Paint Gun	Paint Gun Paint Gun	

7,700	2017	2013	2016	2016	2017	2017	2017	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2016	2010	2016	2016	2016	2016	2016	2016	
	Highland	l os Angolos	Chandler	l os Angeles	Sacramento	Salt Lake City	Raleigh	Archdale	Barre	Boise	Chandler	Charlotte	Chesapeak	Chester	Clackamas	Los Angeles	Oklahoma City	Raleigh	Salt Lake City	St Pauls	Tulsa	Waukesha	Wichita	Barre	Chandler	Chester	Clackamas	Rafeigh	Tallahassee	Albuquerque	Farmington	Fresno	Fresno	Sacramento	Vinton	Farmington	Vinton	Albuquerque	Archdale	Boise	Chandler	Charlotte	Chester	Clackamas	Farmington	Fresno	Highland	Sacramento	Salt Lake City	Santa Ana	ot. Pauls Tompa	Tilka	Vinton	Chester	
																																																200							
																																																53							
							-																																																
= 0	- · · ·	0.0	0.0	2.0	0.5	0.1	0.74	Ψ-	_	_	_	_	_	_	_	~	_	_	7	_	_	<del>-</del>	_	_			_	_	_	~	_	_	_	_	-	Ψ,	· ·			- 4-	_	_	_	_	~	_	-		,				- ~	_	
	=	> =	<b>&gt;</b> =	> =	) =	)	_	$\Box$	$\supset$	$\supset$	_	⊃	$\Box$	_	⊃	$\supset$	_	_	$\supset$	⊃	⊃	⊃	$\supset$	⊃	⊃	⊃	⊃	⊃	⊃	⊃	⊃	)	∩	⊃	<b>⊃</b> :	⊃ :	) :	> =	o =	> =	· >	О	n	⊃	⊃	<b>&gt;</b>	<b>)</b>	<b>-</b> :	<b>-</b> :	<b>)</b> :	<b>&gt;</b> =	<b>&gt;</b> =	<b>&gt;</b> =	) <b>⊃</b>	
-	3/L	J/L	mg/L	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/∟ me/l	mg/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L	mg/L mg/l	mg/L ma/L	mg/L	)
	mg/L	mg/L	Ë E	Ĕ È	ËΈ	ËE	É	Ë	Ë	Ĕ	Ë	Ü	Ë	Ĕ	Ĕ	Ĕ	Ë	Ĕ	Ĕ	Ē	Ĕ	Ĕ	Ē	Ē	Ē	Ē	Ē	Ē	Ē	Ε	Ε	Ε	Ε	Ε	Ē	Ε	E :	E	Ξ ε	3 3	E	Ε	Ε	E	Ε	Ε	E	E	E	Ε ;	E 1	E	= =	E E	
	0.13	0.25	0.25	0.23	0.25	0.34	0.37	0.5	0.5	0.5	0.5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	O. C.	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	o. c	0.5	0.5	
	0.13	υ. υ. r	C C	ט כ	 	0.34	0.74		_	_	<del>-</del>	· <del>-</del>		<b>-</b>	<b>~</b>	· <del>-</del>	<b>—</b>	τ-	_	_	_	<b>,</b>	<del>-</del>	_	_	_	_	_	_	_	_	_	_	_	_	_	<del>-</del> -	<del></del>				<u></u>	τ-	<b>←</b>	_	_	-	-	<u>.</u>	<del>.</del> ,	<b>.</b> .	- 4		- ←	
	180-70521-1	180-47870-1	180-57951-1	180-56227-1	80-38024-1	180-65483-1	80-70390-1	80-43674-1	80-48436-1	180-42952-1	80-42430-1	80-44140-1	80-48623-1	180-44375-1	80-47750-1	80-46521-1	180-45023-1	180-46331-1	180-43575-1	80-48170-1	180-44553-1	180-48058-1	180-47811-1	180-48520-1	180-43584-1	180-44377-1	180-47748-1	80-46330-1	180-48519-1	180-49523-1	180-51441-1	180-49253-1	180-49518-1	180-49235-1	180-51268-1	180-51440-1	180-49234-1	80-512/0-1	80-58/42-1	180-5354-1	80-53492-1	80-58402-1	80-54775-1	80-58671-1	80-56458-1	80-58510-1	180-58737-1	180-58659-1	180-53844-1	180-58153-1	180-56002-1	180-58141-1	180-5871-1	180-54776-1	
	180-7	180-4	180-1	100-	180-1	180-6	180-7	180-7	180-4	180-4	180-4	180-7	180-4	180-4	180-7	180-7	180-7	180-7	180-4	180-7	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180	180.	180	180-	28	180-	180	180-	180-	180-	180-	180-	180-	180-	180-	180-	-5 -5 -6 -6 -7 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	180-	
	Arsenic	Arsenic	Arsenic	Arsenic	Arconic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	) )
						ď	)	ď	o di	) d	) (U	o di	) <u>a</u>	, q.	· a	o gu	ם פ	g gi	رە ب	رو	gg	e.	a)							<u>e</u>	2 0	. e	ē	ţţ.	ţe				ម្ ៤	ត្ ជ	ם פ	2 <u>4</u>	ъ Ф	te te	te.	te	te	te te	te	te.	ţe.	<u>.</u> و	ə t	ក	
	lated Wast	lated Wast	lated Waste	<b>(1)</b>	1) (	Pallit waste Cleaner Related Waste	0	Cleaner Related Waste	lated Waste	Cleaner Related Waste	lated Wast	lated Waste	Gun Cleaner Related Waste	Related Waste	Gun Cleaner Related Waste	Related Waste	Gun Cleaner Related Waste	Related Waste	Gun Cleaner Related Waste	Gun Cleaner Related Waste	Gun Cleaner Related Waste	Gun Cleaner Related Waste	Cleaner Related Waste	a	e o	o o	o di	e e	o o	ר שווונ אימטנט Cleaner Related Waste	Cleaner Related Waste	go,	e e	9.	Cleaner Related Waste	Paint Gun Cleaner Related Waste	Guil Oleaner Netated Waste	Related Waste	Gun Cleaner Related Waste	Gun Cleaner Related Waste	sidicu vvas te	2													
	Seaner Rel	Seaner Rel	Seaner Rel	Paint Waste	Paint Waste Daint Waste	Jeaner Rel	Paint Waste	Seaner Re	Cleaner Related	Seaner Re	Seaner Re	Cleaner Related	Seaner Re	Gun Cleaner Re	Jeaner Re	Gun Cleaner Re	Seaner Re	Gun Cleaner Re	Sleaner Re	Sleaner Re	Sleaner Re	Seaner Re	Sleaner Re	Paint Waste	Jeaner Re	Sleaner Re	Sleaner Re	Cleaner Re	Cleaner Re	Sleaner Re	Paint Waste	Paint Waste	Paint Waste	Cleaner Ke	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Re	Cleaner Ke	Paint Waste						
	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	6		Paint Gun		Paint Gun		Paint Gun		Paint Gun	Paint Gun	Paint Gun	Paint Gun	Paint Gun	Paint Gun (	Paint Gun	Paint Gun (	Paint Gun (	Paint Gun (	Paint Gun (	Paint Gun (						_	Paint Gun		Gun	Paint Gun (	Gun	Paint Gun (				Paint Gun	Paint Gun	Paint Gun	Paint Gun	Paint Gun	Paint Gun	Gun	Gun	Paint Gun	Paint Gun	Gun	Gun	Gun	Paint Gun	Paint Gun	אווו פחווו	

	Albuquerque 2015 St Pauls 2017 Fresno 2015 Chesapeak 2015 Los Angeles 2017 Chandler 2016 Sacramento 2017 Barre 2015 Farmington 2015 Raleigh 2015 Raleigh 2017 Chesapeake 2017
	20 20 20 20 20 20 20 20 20 20 20 20 20 2
196	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 0.5 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0	
180-58677-1 180-56412-1 180-65692-1 180-66032-1 180-66032-1 180-69213-1 180-69211-1 180-69211-1 180-69211-1 180-68241-1 180-68261-1 180-68261-1 180-68261-1 180-66261-1 180-66261-1 180-60015-1 180-60015-1 180-60015-1 180-60011-1 180-44170-1 180-44170-1 180-44170-1 180-64410-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-69824-2 180-69824-2 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1 180-60011-1	
Arsenic Barium	Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium
Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

2015 2017 2017 2017 2016 2015 2016 2017 2017 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2018 2018 2018 2018 2018 2018 2018	
Los Angeles Wichitia Sacramento Salt Lake City Chester Tallahassee Vinton Chester Fresno Chester Barre Salisbury Chester Barre Salisbury Chester Barre Albuquerque Archdale Chandler Sacramento St. Pauls Tulsa Vinton Archdale Fremington Archdale Fremington Clackamas Fresigh Santa Ana St. Pauls Vinton Vinton Vinton Vaukesha Chesapeake Barre	
88	
S2	
888888888888888888888888888888888888888	
7/5cm 1/2/5cm	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
0.000.00000000000000000000000000000000	
180-46521-1 180-64797-1 180-64797-1 180-5344-1 180-48775-1 180-5819-1 180-5810-1 180-5810-1 180-5810-1 180-5811-1 180-5812-1 180-5812-1 180-6813-1 180-6813-1 180-5814-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1 180-6811-1	
Barium	
Paint Gun Cleaner Related Waste	

2017 2017 2016 2016 2016 2016 2016 2016	2016 2016 2016 2017 2017 2015 2015 2015	2017 2017 2017 2015 2015 2015 2015 2015	2015 2017 2015 2015 2017 2017 2015 2015 2017
Archdale Clackamas Chandler Chester Highland Fresno Los Angeles Los Angeles Sacramento Sacramento Fresno	Albuquerque Charlotte Highland Santa Ana Archdale Fresno Chandler Waukesha Sacramento Los Angeles Los Angeles Santa Ana Chandler	Los Angeles Sacramento Farmington Raleigh Farmington Wichita St Pauls Chester Raleigh Clackamas Farmington Barre Albuquerque Clackamas Farmington Barre Clackamas Farmington Barre Clackamas	Farmington Salisbury Tulsa Chester Clackamas Chandler Salt Lake City Vinton Salt Lake City St Pauls Tallahassee Salt Lake City Waukesha Oklahoma City
			06
			93
222222222	ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע	00 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
200000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	000000000000000000000000000000000000000
2222722		D .	D .
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	1/5 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	100 L
51 78 99 130 0.1 0.1 0.1 0.22 0.25 0.25	0.25 0.25 0.25 0.25 0.33 0.57 0.68 0.68	1	7.5 7.6 8.8 8.8 8.9 9.6 6.6 6.6 6.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7
51 78 99 99 0.2 0.2 0.2 0.2 0.2 0.5	0.5 0.5 0.5 0.5 0.3 0.52 0.58 0.66 0.68	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7.5 7.6 8.8 8.9 8.9 9.6 1.1 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
180-66032-1 180-69212-1 180-65188-1 180-54776-1 180-58510-1 180-58024-1 180-58643-1 180-58659-1 180-68659-1 180-68659-1	180-58742-1 180-58402-1 180-58153-1 180-66032-1 180-6525-1 180-60251-1 180-68464-1 180-46521-1 180-46521-1 180-46521-1	180-68638-1 180-70518-1 180-69824-1 180-56412-1 180-64797-1 180-64566-1 180-44377-1 180-47748-1 180-47748-1 180-47748-1 180-47750-1 180-49523-1 180-46331-1 180-48520-1	180-51441-1 180-70805-1 180-44553-1 180-69212-1 180-65188-1 180-65188-1 180-65483-1 180-65483-1 180-48519-1 180-48519-1 180-53844-1 180-53844-1 180-65023-1
Barium Barium Barium Barium Benzene Benzene Benzene Benzene Benzene Benzene	Benzene	Benzene	Benzene
Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste

Waukesha 2015 Wichita 2015 Chandler 2015 Chandler 2016 Oklahoma City 2017 Archdale 2015 Boise 2017 Chesapeake 2017 Charlotte 2017 Archdale 2017 Archdale 2017 Archdale 2017 Archdale 2017 Clackamas 2016 Vinton 2016 Chesapeake 2017 Clackamas 2016 Vinton 2016 Vinton 2016 Chesapeake 2017 Clackamas 2016 Vinton 2016 Chesapeake 2017 Clackamas 2016 Archdale 2017 Chandler 2016 Chester 2016 Chester 2016 Chandler 2017 Chester 2016 Chandler 2017 Chester 2016 Chandler 2017 Chandler 2017 Chandler 2017 Chandler 2017 Chandler 2017 Chandler 2017	r e sirifico so e x
>	THE STATE OF
	JB 0.05 U 0.005 U 0.005 U 0.005 JB 0.05 U 0.05
### ##################################	
13 13 13 13 13 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	0.024 0.05 0.05 0.05 0.05 0.05 0.027 0.043 0.043 0.059 0.11 0.5
180-48058-1 180-48058-1 180-48058-1 180-69240-1 180-69240-1 180-69240-1 180-69241-1 180-69211-1 180-69211-1 180-69211-1 180-69211-1 180-6922-1 180-69211-1 180-69211-1 180-69211-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-6921-1 180-52534-1 180-55534-1 180-55534-1 180-55534-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1 180-59262-1	
Waste Benzene Benzene Benzene Benzene Benzene Benzene Benzene Benzene Waste Benzene Benzene Waste Benzene Benzene Waste Benzene Waste Benzene Waste Benzene Waste Benzene I Waste Benzene Benzene Benzene Cadmium Cadmium	
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Paint Gun Cleaner Pelated Paint Waste Paint Gun Cleaner Related Paint Gun Cleaner Pelated Paint Waste Paint Waste	Paint Gun Cleaner Related Waste

2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015	
Chester Clackamas Highland Los Angeles Oklahoma City Raleigh Salt Lake City Sat Pauls Tulsa Waukesha Wichita Barre Chester Clackamas Fresno Chester Clackamas Fresno Fresn	Raleigh Salisbury Santa Ana St Pauls
8	
23	
տ տ տ տ տ տ տ տ տ տ տ տ տ տ տ տ տ տ տ	ာ် ကဲ့ ကဲ့ ကဲ့
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00
	2222
7/6mm = mag	mg/L mg/L mg/L
	E E E E
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000
75-1 77-1 77-1 77-1 77-1 77-1 77-1 77-1	391-1 305-1 318-1 566-1
180-44375-1 180-44375-1 180-4750-1 180-4521-1 180-4521-1 180-4523-1 180-4553-1 180-4553-1 180-4553-1 180-49253-1 180-49253-1 180-51268-1 180-52477-1 180-58402-1 180-58402-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58411-1 180-58651-1 180-58651-1 180-58651-1 180-58651-1 180-58651-1 180-58651-1 180-88651-1 180-88651-1 180-88651-1 180-88651-1 180-88643-1 180-88643-1 180-88643-1 180-88643-1 180-88643-1 180-88643-1 180-88644-1	180-68560-1 180-70391-1 180-67818-1 180-68566-1
Cadmium	Cadmium Cadmium Cadmium Cadmium Cadmium
	30000
Waste	Waste Waste Waste Waste
Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Cleaner Related Waste Gun Cleaner Related Waste Gun Cleaner Related Waste	Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste
Cleaner Rela Clean	leaner l leaner l leaner l leaner l
Paint Gun Cleaner Related Waste Paint Waste	raint cun cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste
Paint ( Paint	Pair Pair Pair Pair

2017 2017 2017 2017 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018	2016 2016 2016
St Pauls Vinton Vinton Vinton Vinton Vinton Vinton Chesapeake Chesapeake Chesapeake Los Angeles Highland Fresno Los Angeles Chandler Chandler Chandler Chandler Chandler Chandler Chester Clackamas Sacramento Archdale Barre Barre Chandler Chester Clackamas Los Angeles Sacramento Archdale Barre Barre Chester Clackamas Clackamas Raleigh Salt Lake City St Pauls Tulsa Wichita Barre Chester Clackamas Raleigh Tallahassee Albuquerque Farmington Fresno Fresno Fresno Fresno Sacramento Vinton Albuquerque Archdale Boise Chandler Chandler Chandler Chandler Chandler	Chester Clackamas Farmington
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5
	o
7	mg/L mg/L mg/L
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25
00000000000000000000000000000000000000	0.5 0.5 0.5
180-6626-1 180-66261-1 180-66261-1 180-66261-1 180-64797-1 180-64797-1 180-60016-1 180-60016-1 180-60016-1 180-60017-1 180-60017-1 180-68638-1 180-60017-1 180-68638-1 180-60017-1 180-68638-1 180-60017-1 180-68638-1 180-60017-1 180-68638-1 180-68638-1 180-60017-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1 180-68638-1	180-54775-1 180-58671-1 180-56458-1
Cadmium Cathon Tetrachloride Carbon Tetrachloride	Carbon Tetrachloride Carbon Tetrachloride Carbon Tetrachloride
Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

<b></b>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
2016 7 2016 7 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017	
Highland Sacramento Salt Lake City Santa Ana St. Pauls Tampa Tulsa Vinton Chester Clackamas Farmington	Archdale Archdale Boise Chandler Chesapeake Clackamas Clackamas Clackamas Los Angeles Los Angeles Chandler Salisbury Santa Ana St Pauls Vinton Vinton Vinton Waukesha Barre Chesapeake Chesapeake Sacramento Satt Lake City Sacramento Satt Lake City Sacramento Chesapeake Chesapeake Chesapeake Chesapeake Chesapeake Chesapeake Sacramento Satt Lake City Sacramento Satt Lake City Sacramento Chesapeake Chesapeake Barre Chesapeake Sacramento Archdale Escanalist Chesapeake Chandler Cohandler Chesapeak	
88		
53		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000000000000000000000000000000000000	
55555555555		
7,6 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	7/56 E E E E E E E E E E E E E E E E E E E	
0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
180-58737-1 180-58659-1 180-58153-1 180-58141-1 180-58731-1 180-5877-1 180-5877-1	180-65692-1 180-66032-1 180-66032-1 180-65188-1 180-69212-1 180-68915-1 180-68244-1 180-68244-1 180-68244-1 180-68244-1 180-6825-1 180-6825-1 180-6825-1 180-6625-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1 180-6017-1	
Carbon Tetrachloride	Carbon tetrachloride Carbon te	
Paint Gun Cleaner Related Waste Paint Waste Paint Waste	Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	

Los Angeles 2015 Oklahoma City 2015 Raleigh 2015 Salt Lake City 2015 St Pauls 2015 Tulsa 2015 Wichita 2015 Barre 2015 Chester 2015	Fresho 2015 Fresho 2015 Vinton 2015 Vinton 2015 Vinton 2015 Archdale 2016 Chandler 2016 Charlotte 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2017 Chester	_
	63	
55 mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0	0.00 0.00 0.00 0.85 0.81
ene 180-46521-1 ene 180-45023-1 ene 180-43575-1 ene 180-4357-1 ene 180-44553-1 ene 180-44553-1 ene 180-4357-1	tene 180-49253-1 tene 180-49253-1 tene 180-49235-1 tene 180-51268-1 tene 180-5534-1 tene 180-5534-1 tene 180-58402-1 tene 180-58402-1 tene 180-58402-1 tene 180-58411-1 tene 180-58737-1 tene 180-58737-1 tene 180-58737-1 tene 180-58737-1 tene 180-58737-1 tene 180-58737-1 tene 180-58737-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68032-1 tene 180-68038-1 tene 180-68038-1 tene 180-68038-1 tene 180-68038-1	
Vaste Chlorobenzene Vaste Chlorobenzene Vaste Chlorobenzene Vaste Chlorobenzene Vaste Chlorobenzene Vaste Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene	Vaste Chlorobenzene Vaste Chlorobenzene Chlo	
Paint Gun Cleaner Related Waste Paint Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

2015 2015 2017 2017 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	
Tallahassee Sacramento Chesapeake Raleigh Albuquerque Farmington Albuquerque Los Angeles Vinton Waukesha Sacramento Barre Chandler Santa Ana Salt Lake City Vinton Sacramento Chandler Sacramento Vinton Albuquerque Fresno Sacramento Sacramento Sart Lake City Santa Ana St. Pauls Tampa Tulsa Vinton	
0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
>	
7/5 E E E E E E E E E E E E E E E E E E E	
$\frac{6}{8}$ $\frac{1}{4}$ $\frac{1}$	
86.0	
180-48519-1 180-70518-1 180-60015-1 180-48530-1 180-68915-1 180-68915-1 180-48521-1 180-48234-1 180-48234-1 180-5815-1 180-58153-1 180-5816-1 180-5810-1 180-5810-1 180-5810-1 180-5822-1 180-5810-1 180-5822-1 180-5822-1 180-5822-1 180-5822-1 180-5822-1 180-5843-1 180-5823-1 180-5823-1 180-5823-1 180-5823-1 180-5823-1 180-5823-1 180-5823-1 180-58440-1 180-5874-1 180-58510-1 180-5844-1 180-58510-1 180-5871-1 180-58510-1 180-58510-1 180-5871-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58111-1 180-58111-1	
Chlorobenzene Chloroform	
Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	

2016 2016 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2017 2017 2016 2017 2016 2016
Farmington Vinton Archdale Archdale Boise Chandler Chesapeake Clackamas	Clackamas Farmington Farmington Los Angeles Los Angeles Oklahoma City Raleigh Salisbury	Santa Ana St Pauls St Pauls Vinton Vinton Waukesha Wichita Sacramento Chesapeake Waukesha Barre Barre Chesapeake	Chesapeake Chesapeake Clackamas Raleigh Barre Tulsa Waukesha Salt Lake City Chesapeak	Archdale Farmington Chester Tallahassee Sacramento Santa Ana Raleigh Sacramento Santa Ana Satt Lake City Sacramento Los Angeles Chandler
	8			
	23			
00000000	100000000		, , , , , , , , , , , , , , , , , , ,	2 2 2 2 2 2 3 3 3 0 0 0 5 0 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
222222			<b>D</b>	
mg/L mg/L mg/L mg/L mg/L	7,65 1,65 1,65 1,65 1,65 1,65 1,65 1,65 1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7/56 L 7/	
, <del>-</del>			0, 0, 4, 0, ∞ 0, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 29 37 56 75 100 400 0.0099 0.025 0.025 0.033
0000000	1000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8. 8. 4. 8. 8. 8. 9. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	28 29 37 56 200 800 3300 0.009 0.05 0.05
180-56412-1 180-58270-1 180-65692-1 180-68704-1 180-65188-1 180-70322-1	180-69212-1 180-69212-1 180-6924-1 180-68638-1 180-68464-1 180-70391-1	180-67818-1 180-68566-1 180-70626-1 180-66257-1 180-68957-1 180-64797-1 180-6016-1 180-60751-1 180-60751-1 180-60754-1	180-48170-1 180-46331-1 180-46331-1 180-46330-1 180-48436-1 180-4853-1 180-4853-1 180-48623-1 180-43575-1 180-47748-1	180-42952-1 180-43674-1 180-51441-1 180-54776-1 180-70521-1 180-5262-1 180-58643-1 180-65483-1 180-65483-1 180-57951-1
Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform	Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform	Chloroform	Chloroform	Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chromium Chromium Chromium Chromium
Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Neigreu Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

Fresno 2016 Clackamas 2016 St. Pauls 2016 Raleigh 2017 Archdale 2016 Clackamas 2016 Chesapeake 2017 Chesapeake 2017 Sacramento 2016 Santa Ana 2017	Waukesha 2015 Chesapeak 2015 Chesapeak 2015 Sacramento 2015 Sacramento 2015 Satramento 2015 Satramento 2016 Chandler 2015 Barre 2015 Barre 2015 Barre 2015 Barre 2015 Archdale 2015 Archdale 2015 Archdale 2015 Chandler 2015 Farmington 2016 Albuquerque 2015 Chandler 2015 Archdale 2015 Chandler 2015 Archdale 2015 Archdale 2015 Archdale 2015 Archdale 2015 Chandler 2015		Santa Ana 2016 Tampa 2016 Los Angeles 2016 Archdale 2017 Boise 2017 Chandler 2017 Clackamas 2017 Farmington 2017 Los Angeles 2017
		53 89	
0.05 1 0.05 1 0.37 1 1 1 1 1 1 1 1 1 1 1 1 1	L L L L L L L L L L L L L L L L L L L		
7/50 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30	7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,		
0.063 0.064 0.064 0.072 0.072 0.072 0.077 0.077 0.082 0.082 0.082 0.082 0.084 0.084 0.09		0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	
180-58510-1 180-58671-1 180-56002-1 180-70390-1 180-55534-1 180-60015-1 180-606015-1	180-6895/-1 180-48058-1 180-48623-1 180-49234-1 180-53844-1 180-58271-1 180-69240-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1 180-48436-1		
ste Chromium ste Chromium ste Chromium ste Chromium Chromium ste Chromium ste Chromium ste Chromium		Waste Chromium	
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

Los Angeles 2017 St Pauls 2017 St Pauls 2017 Vinton 2017 Chesapeake 2017 Waukesha 2017 Waukesha 2017 Barre 2017 Chester 2015 Chester 2015 Chester 2015 Archdale 2017 Farmington 2017 Barre 2017 Wichita 2017 Winton 2017 Barre 2015 Tulsa 2016 Chester 2015 Famington 2017 Winton 2017 Winton 2017 Barre 2015 Famington 2016 Chester 2015 Famington 2016 Chesapeake 2017 Vinton 2017	S S S S S S S S S S S S S S S S S S S
0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	οοο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο
ם מ ממר הרככככככככ מממ	ma
0.25 mg/L 0.25 mg/L 0.25 mg/L 0.25 mg/L 0.25 mg/L 0.27 mg/L 0.34 mg/L 0.37 mg/L 0.37 mg/L 0.37 mg/L 0.37 mg/L 0.37 mg/L 0.48 mg/L 0.72 mg/L 0.72 mg/L 0.72 mg/L 0.72 mg/L 0.72 mg/L 0.73 mg/L 0.72 mg/L 0.72 mg/L 0.73 mg/L 0.73 mg/L 0.74 mg/L 0.75 mg/L	
180-68464-1 0.5 180-68566-1 0.5 180-70626-1 0.5 180-60257-1 0.5 180-60016-1 0.5 180-600251-1 0.5 180-60751-1 0.5 180-647748-1 0.27 180-6932-1 0.34 180-69324-2 0.37 180-6924-2 0.37 180-69251-1 0.48 180-67051-1 0.48 180-67051-1 0.84 180-67051-1 1.2 180-6820-1 0.86 180-6820-1 0.86 180-6820-1 1.8	180-58270-1 3.3 180-49253-1 3.7 180-69212-1 6.6 180-58024-1 >140 180-70518-1 >140 180-70518-1 <140 180-67843-1 <140 180-67843-1 <77.2 180-65692-1 <77.2 180-65692-1 <77.2 180-65692-1 <76 180-5534-1 <76 180-5534-1 <76 180-5534-1 <76 180-54775-1 <76 180-4375-1 <75 180-436-1 <75 180-436-1 <75 180-436-1 <75 180-4437-1 <75 180-4437-1 <75 180-4435-1 <75 180-4437-1 <75
	Chromium Chashpoint Chashpoint Chashpoint Chromium Chashpoint Chromium Chashpoint Chashpoint Chashpoint Chromium Chashpoint Chashpoin
Paint Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

Albuquerque 2015 Farmington 2015 Fresno 2015 Fresno 2015 Sacramento 2015 Vinton 2015 Vinton 2015 Raleigh 2015	Saft Lake City 2015 Waukesha 2015 Chandler 2015 Tallahassee 2017 Clackamas 2017 Waukesha 2017 Clackamas 2017 Waukesha 2017 Clackamas 2017 Barre 2017 Chandler 2017 Chandler 2017 Chandler 2017 Salisbury 2017 Waukesha 2017 Vinton 2017 Salisbury 2017 Vinton 2017 Salisbury 2017 Vinton 2017 Clackamas 2016 Clackamas 2016 Clackamas 2016 Clackamas 2016 Chesapeake 2017 Chesapeake 2016 Charlotte 2016 Fresno 2016 Vinton 2015 Vinton 2016 Vinton 2017 Vinton 2016 Vinton 2017 Vinton 2016 Vinton 2017 Vinto	æ
		- C
<ul> <li>&lt; 75</li> <li>&lt; 9</li> <li>&lt; 75</li> <li>&lt; 75</li> <li>&lt; 75</li> <li>&lt; 9</li> <li>&lt; 75</li> <li>&lt; 75</li> <li>&lt; 75</li> <li>&lt; 75</li> <li>&lt; 9</li> <li>&lt; 75</li> <li>&lt; 76</li> <li>&lt;</li></ul>	7.7.7.7.7.7.7.7.7.7.7.9.9.9.9.9.9.9.9.9	<ul><li>&lt;36 C36 Degrees F</li><li>&lt;36 Degrees F</li></ul>
Flashpoint 180-49523-1 Flashpoint 180-49523-1 Flashpoint 180-49253-1 Flashpoint 180-49235-1 Flashpoint 180-51268-1 Flashpoint 180-51270-1 Flashpoint 180-46331-1	180-43575-1 180-4858-1 180-4858-1 180-48519-1 180-6032-1 180-6032-1 180-60251-1 180-60251-1 180-60251-1 180-60251-1 180-60751-1 180-60751-1 180-68915-1 180-68915-1 180-68915-1 180-68915-1 180-68911-1 180-6865-1 180-6865-1 180-6865-1 180-68638-1 180-68638-1 180-6865-1 180-68638-1 180-68016-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-69824-2 180-69824-2 180-58731-1 180-58731-1 180-58731-1 180-58731-1	Flashpoint 180-58270-1 Flashpoint 180-58153-1
Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

2015 2015 2016 2016 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016
Salt Lake City Highland Santa Ana Chandler Los Angeles Sacramento Salt Lake City Sacramento Sacramento Raleigh Archdale Barre Charlotte Farmington Farmington Fresno Sacramento Vinton Farmington Albuquerque Archdale Boise Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Charlotte Sacramento Sacramento Satt Lake City Santa Ana St. Pauls	Tampa Tulsa Vinton
53	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.13 0.13 0.13
*	
Degrees F aggle St. L.	mg/L mg/L mg/L
0.55 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0	0.065 0.065 0.065
$\begin{smallmatrix} & & & & & & & & & & & & & & & & & & &$	0.13
180-65483-2 180-47870-1 180-5262-1 180-58227-1 180-58024-1 180-58024-1 180-58643-1 180-65483-1 180-65483-1 180-48521-1 180-43674-1 180-4357-1 180-4357-1 180-4357-1 180-4357-1 180-4357-1 180-4357-1 180-4357-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-43531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-52531-1 180-53492-1 180-58477-1 180-58471-1 180-58471-1 180-58471-1 180-58659-1 180-58659-1 180-58659-1	180-58141-1 180-58731-1 180-58271-1
Flashpoint Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	0 cm 0 cm

2016 2016 2016 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2017 2017 2017 2017	2015 2016 2016 2017 2016 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
Chester Clackamas Farmington Vinton Archdale Archdale Boise Chandler Chandler Chandler Chandler Clackamas	Farmington Los Angeles Los Angeles Coklahoma City Raleigh Salisbury Santa Ana St Pauls St Pauls Vinton Vinton Vinton Waukesha Wichita Chesapeake Chesapeake Barre Barre Chesapeake	Los Angeles Farmington Highland Santa Ana Chandler Los Angeles Sacramento Salt Lake City Sacramento Raleigh Archdale Barre Boise Charlotte Charlot
0.13 0.13 0.13 0.13 0.13 0.13 0.13	0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
7/5w 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7 20/7	7/6ш 7/6ш 7/6ш 7/6ш 8/7/6ш 8/7/6ш 8/7/6ш 8/7/6ш 8/7/6ш 8/7/6ш	
0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.125 0.125 0.125 0.025 0.025 0.025 0.025 0.025 0.065 0.065 0.065 0.065 0.065 0.065 0.065
0.000000000000000000000000000000000000	\$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00	0.05 0.05 0.05 0.05 0.05 0.05 0.03 0.03
80-54776-1 80-58677-1 80-56412-1 80-58270-1 80-6592-1 80-66032-1 80-68704-1 80-65188-1 80-69211-1	80-68915-1 80-68638-1 80-68464-1 80-69240-1 80-70391-1 80-67818-1 80-67818-1 80-6257-1 80-66261-1 80-60257-1 80-60016-1 80-60015-1 80-60015-1 80-60754-1	180-58510-1 180-58510-1 180-58510-1 180-58227-1 180-58227-1 180-58024-1 180-58024-1 180-5803-1 180-70518-1 180-70518-1 180-433-1 180-44375-1 180-4552-1 180-4375-1 180-4552-1 180-4552-1
Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobutadiene
Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017 2017 2017 2017 2017
Wichita Barre Chandler Chandler Chandler Chackamas Raleigh Tallahassee Albuquerque Farmington Fresno Sacramento Vinton Sacramento Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Charlotte Chester Clackamas Farmington Highland Santa Ana Santa Ana St. Pauls Tampa Tulsa Vinton Chester Clackamas Farmington Chester Clackamas Farmington Vinton Archdale Pacing	Chandler Chesapeake Clackamas Clackamas Clackamas Los Angeles Los Angeles Oklahoma City Raleigh Salisbury Santa Ana St Pauls Vinton Vinton Waukesha Wichita Chesapeake
82	
23	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0.0055 0.0065 0.0065 0.0065 0.0065 0.0065 0.0065 0.0065 0.0065	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-47811-1 180-43584-1 180-4377-1 180-48519-1 180-48519-1 180-48513-1 180-4853-1 180-4853-1 180-4853-1 180-4823-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-5247-1 180-58402-1 180-58671-1 180-58671-1 180-58659-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1 180-58153-1	180-68704-1 180-65188-1 180-69211-1 180-69212-1 180-6838-1 180-68240-1 180-69240-1 180-69240-1 180-68566-1 180-66261-1 180-66261-1 180-66261-1 180-66261-1
	Hexachlorobutadiene
	Paint Gun Cleaner Related Waste

Chesapeake 2017 Waukesha 2017 Barre 2017 Barre 2017 Chesapeake 2017 Fresno 2016 Los Angeles 2015 Santa Ana 2015 Chandler 2016 Los Angeles 2016	Sadramento 2016 Salt Lake City 2017 Sacramento 2017 Raleigh 2017 Raleigh 2015 Barre 2015 Boise 2015 Chesapeak 2015 Chesapeak 2015 Chester 2015 Clackamas 2015 Los Angeles 2015 Salt Lake City 2015 St Pauls Tulsa 2015		Sacramento 2015 Vinton 2015 Vinton 2015 Albuquerque 2016 Archdale 2016 Boise 2016 Chandler 2016 Charlotte 2016 Clackamas 2016 Farmington 2016 Highland 2016 Sacramento 2016 Salt Lake City 2016
0.13 0.13 0.13 0.25 0.05 0.05 0.05	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5 C C C C C C C C C C C C C C C C C C C	
mg/L mg/L mg/L mg/L mg/L n mg/L n mg/L n mg/L n mg/L n	mg/L mg/L mg/L n mg/L n mg/L n mg/L n mg/L n mg/L n mg/L	mg/L 0 0 1/26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/L mg/L n ng/L n ng/L n ng/L n ng/L n ng/L n ng/L n ng/L
14	0.05 0.05 0.05 0.05 0.05 0.13 0.05 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.13 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13		0.13 0.13 0.13 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.13 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.
	ane 180-58643-1 Tane 180-70521-1 Tane 180-70521-1 Tane 180-70518-1 Tane 180-48436-1 Tane 180-48436-1 Tane 180-48436-1 Tane 180-48430-1 Tane 180-48623-1 Tane 180-4875-1 Tane 180-4875-1 Tane 180-4875-1 Tane 180-4853-1		hane 180-51440-1 hane 180-51270-1 hane 180-5534-1 hane 180-5534-1 hane 180-5472-1 hane 180-5472-1 hane 180-58671-1 hane 180-58671-1 hane 180-58659-1 hane 180-58659-1 hane 180-58659-1
	Hexachloroethane Vaste Hexachloroethane		Hexachloroethane Hexachloroethane Vaste Hexachloroethane
Paint Waste Paint Gun Cleaner Related Waste Paint Waste	Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

	2017 2017 2017 2017 2016 2015 3 2015 4 2015 5 2016 5 2016 6 2016 7 2016 8 2016 9 2016 9 2016
Santa Ana St. Pauls Tampa Tulsa Vinton Chester Clackamas Farmington Vinton Archdale Boise Chandler Chesapeake Clackamas Farmington Los Angeles Los Angeles Los Angeles Los Angeles Salisbury Santa Ana St Pauls Vinton Vinton Vinton	Wichita Chesapeake Chesapeake Waukesha Barre Barre Chesapeake Fresno Los Angeles Charlotte Oklahoma City Farmington Santa Ana Los Angeles Farmington Salt Lake City Sacramento Boise Raleigh Charlotte Oklahoma City Fresno Highland Charlotte Oklahoma City Sacramento Boise Raleigh Charlotte Charlotte Charlotte Charlotte Oklahoma City Sacramento Boise Raleigh Charlotte Charlotte Charlotte Charlotte Charlotte
88	
\$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00	\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\frac{1}{2}\$\$\fra
	*
mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7/5E 7/5E 1/5E 1/5E 1/5E 1/5E 1/5E 1/5E 1/5E 1
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.025 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.
0.000000000000000000000000000000000000	0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.15 0.15 0.15 0.15 0.15 0.17 0.17 0.17 0.18 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19
180-58153-1 180-5802-1 180-58731-1 180-5877-1 180-58277-1 180-5692-1 180-6592-1 180-6592-1 180-6592-1 180-69211-1 180-69211-1 180-69211-1 180-68518-1 180-68211-1 180-68211-1 180-68211-1 180-68518-1 180-68518-1 180-68518-1 180-68518-1 180-68511-1 180-68511-1 180-6856-1 180-6856-1	180-64797-1 180-60016-1 180-60015-1 180-60251-1 180-60751-1 180-58510-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-57951-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58643-1 180-58643-1
Hexachloroethane	Hexachloroethane Lead Lead Lead Lead Lead Lead Lead Lea
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2015 2015 2015 2015 2015 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017
Raleigh Archdale Barre Chandler Chesapeak Chester Clackamas Los Angeles Raleigh Saft Lake City St Pauls Tulsa Waukesha Wichita Barre Chandler	Chester Clackamas Tallahassee Albuquerque Farmington Fresno Fresno Fresno Fresno Fresno Fresno Fresno Fresno Vinton Farmington Sacramento Vinton Albuquerque Archdale Boise Chandler Chester Clackamas Farmington	Highland Sacramento Salt Lake City Santa Ana St. Pauls Tampa Tulsa Vinton Chester Clackamas Vinton Archdale Archdale Archdale Clackamas
	*	88
		23
4		<del></del>
0		
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7/6EE
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000 2000 2000 2000 2000 2000 2000 200
4		
0		2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
180-70390-1 180-43674-1 180-42430-1 180-42430-1 180-4275-1 180-46521-1 180-46531-1 180-4553-1 180-4553-1 180-4553-1	180-44377-1 180-47748-1 180-49513-1 180-51441-1 180-51263-1 180-51263-1 180-51270-1 180-58742-1 180-55347-1 180-55347-1 180-54775-1 180-58671-1	180-58737-1 180-58659-1 180-53844-1 180-58153-1 180-58171-1 180-58771-1 180-58677-1 180-68704-1 180-68704-1 180-69212-1 180-69212-1 180-69212-1 180-68464-1 180-68464-1
Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead
Waste	d Waste d Waste d Waste d Waste d Waste d Waste d Waste d Waste d Waste	Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste Paint Waste Cleaner Related Waste
Paint Waste Cleaner Related Waste	Paint Waste Paint Waste Paint Waste Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste	Cleaner Related Waste Cleaner Related Waste Paint Waste Cleaner Related Waste
Paint Gun G Paint Gun G	Paint Gun (Paint Gun (	Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun

Salisbury Santa Ana St Pauls Vinton Waukesha 2017  Vinton Waukesha 2017  Wichita 2017  Wichita 2017  Wichita 2017  Wichita 2017  Wichita 2017  Chesapeake 2017  Barre 2017  Chesapeake 2017  Barre 2017  Chandler 2016  Clackamas 2016  Farmington 2016  Farmington 2016  Clackamas 2016  Clackamas 2016  Clackamas 2016  Clackamas 2015  Chandler 2015	Albuquerque 2015
0.0002 0.0002 0.0002 0.0002 0.0002 0.0033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033
	コ
	mg/L
0.55 0.05 0.05 0.05 0.05 0.05 0.00 0.00	0.0165
0.002 0.0002 0.0003 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033	0.033
180-70805-1 180-67818-1 180-68566-1 180-68565-1 180-68567-1 180-68561-1 180-68017-1 180-60017-1 180-60017-1 180-68017-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58511-1 180-58511-1 180-58511-1 180-58511-1 180-58511-1 180-68115-1 180-68015-1 180-48571-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1 180-48521-1	180-49523-1
Lead Lead Lead Lead Lead Lead Lead Lead	Mercury
Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste

Farmington 2015 Fresno 2015 Fresno 2015 Sacramento 2015 Vinton 2015 Sacramento 2015 Vinton 2015 Vinton 2015 Albuquerque 2016 Boise 2016 Rose 2016	Chester 2016 Farmington 2016 Highland 2016 Salt Lake City 2016 Santa Ana 2016 St. Pauls 2016 Tulsa 2016 Tulsa 2016 Tulsa 2016 Archdale 2017 Chesapeake 2017 Chesapeake 2017 Chesapeake 2017 Clackamas 2017 Vinton 2017 Chesapeake 2017 Chesap	
23		
0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	
1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m 1,6m	7/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50	
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0176 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.	
0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.034 0.034 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035	
180-51441-1 180-49253-1 180-49518-1 180-51268-1 180-51440-1 180-51270-1 180-58742-1 180-52547-1	180-54775-1 180-58737-1 180-58153-1 180-58144-1 180-58144-1 180-58141-1 180-58731-1 180-65188-1 180-65188-1 180-65212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-6838-1 180-6838-1 180-6856-1 180-6856-1 180-6856-1 180-6856-1 180-6851-1 180-6851-1 180-60015-1 180-60015-1 180-60015-1 180-6017-1 180-60117-1 180-60117-1 180-60117-1 180-6851-1 180-44375-1 180-4835-1 180-4835-1 180-4835-1 180-48551-1	
Mercury Mercury Mercury Mercury Mercury Mercury Mercury Mercury	Mercury Mercur	
Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	

2015 2017 2017 2016 2016 2015 2017 2017 2017 2017 2017 2017	2017 2017 2017 2017 2015 2015 2015 2016 2017 2016 2017 2016 2017 2016 2017 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017 2017 2017 2017 2017 2017 2017 2017	
Fresno Santa Ana Los Angeles Santa Ana Los Angeles Chandler Fresno Los Angeles Sacramento Santa Ana Archdale Farmington Sacramento Chandler Farmington	Raleigh St Pauls St Pauls St Pauls Clackamas Barre Salisbury Chester Raleigh Vinton Barre Clackamas Chesapeake Vinton Wichita Vinton Chandler Clackamas Farmington Chandler Chandler Chandler Chandler Vinton Waukesha Chandler Vinton Waukesha Chandler Vinton	Raleigh Oktahoma City Albuquerque Charlotte Charlotte Charlotte Salt Lake City Salt Lake City Salt Lake City Salt Lake City Salt Lake City Salt Pauls Raleigh Chester Tampa Vinton Barre Clackamas Archdale
		88
		83
0.5 0.5 0.5 0.5 10 20 800 10 25 200 50 100 50	2000 2000 2000 2000 2000 2000 2000 200	870 2000 2000 2000 2000 2000 2000 2000 2
э ш	ішш ш	
7/6u 17/6u 17/6u 17/6u 17/6u 17/6u 17/6u 17/6u 17/6u	7/66 7/66 7/66 7/66 7/66 8 9 9 7/7 8 9 9 9 7/7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2007 2007 2007 2007 2007 2007 2007 2007
24 34 50 75 110 110 130 180 290 400 440 700 1600 1700 3300	3400 6800 6800 7700 11000 14000 24000 24000 27000 30000 33000 38000 38000 45000 45000	59000 55000 55000 60000 71000 78000 78000 78000 91000 91000
24 34 50 75 110 110 130 130 180 290 800 800 440 700 1100 1700	3400 6400 6800 7700 11000 11000 14000 22000 22000 22000 33000 33000 33000 35000 45000 45000	49000 51000 55000 60000 71000 71000 72000 72000 91000 91000 97000
180-49518-1 180-67818-1 180-58153-1 180-58153-1 180-58227-1 180-68464-1 180-68464-1 180-52262-1 180-69824-1 180-69824-1 180-70521-1 180-3584-1 180-51440-1	180-5030-1 180-65483-1 180-69212-1 180-69212-1 180-69212-1 180-69212-1 180-6005-1 180-58677-1 180-58270-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-66257-1 180-68915-1 180-68915-1	180-569240-1 180-69240-1 180-69240-1 180-58742-1 180-5844-1 180-56002-1 180-56002-1 180-4375-1 180-44375-1 180-58141-1 180-58671-1
Methyl Ethyl Ketone Methyl Ethyl Ketone		
Paint Gun Cleaner Related Waste		Paint Gun Cleaner Related Waste

Boise 2015 Chesapeak 2015 Glackamas 2017 Glackamas 2017 St Pauls 2015 Barre St Pauls 2015 Chandler 2016 Salt Lake City 2015 Archdale 2015 Chesapeake 2015 Archdale 2015 Chesapeake 2016 Chandler 2016 Farmington 2016 Highland 2015 Boise 2016 Santa Ana 2016 Fresno 2016 Chandler 2017 Sacramento 2017 Sacramento 2017 Sacramento 2017 Fresno 2016 Chandler 2015 Barre 2015 Chandler 2015 Chesapeak	00 =
2000 2000 2000 2000 2000 2000 2000 200	
97000 97000 100000 110000 110000 120000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 130000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13000 13	
180-42952-1     97000       180-42952-1     97000       180-69211-1     100000       180-69211-1     100000       180-47750-1     100000       180-60751-1     110000       180-60751-1     110000       180-60751-1     110000       180-48170-1     110000       180-48575-1     12000       180-48575-1     12000       180-48575-1     130000       180-48575-1     130000       180-48575-1     170000       180-48575-1     170000       180-48575-1     170000       180-48575-1     170000       180-48571-1     190000       180-48571-1     190000       180-48571-1     190000       180-48571-1     190000       180-48571-1     190000       180-48571-1     190000       180-48571-1     10.05       180-5873-1     10.05       180-5873-1     10.05       180-58843-1     0.05       180-58810-1     0.05       180-58810-1     0.05       180-58810-1     0.05       180-48436-1     0.05       180-48436-1     1       180-48437-1     1       180-48521-1     1       180-48521-1 <t< td=""><td></td></t<>	
	2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Wast	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Cleaner Related Waste Paint Gun Cleaner Related Waste

Fresho 2015 Fresho 2015 Sacramento 2015 Vinton 2015 Vinton 2015 Vinton 2015 Vinton 2015 Vinton 2015 Albuquerque 2016 Archdale 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Charlotte 2016 Chester 2016 Chester 2016 Farmington 2016 Farmington 2016 Saft Lake City 2016 Saft Lake City 2016 Santa Ana 2016 Tulsa 2016 Tulsa 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2016 Chester 2017 Charlotte 2017 Charl	z z z z z z z z z z z z z z z z z z z
	0.05 0.05 0.05
7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
	180-66257-1 180-66261-1 180-68957-1 180-60016-1 180-60015-1 180-60751-1 180-60751-1 180-69824-1 180-58227-1
	Methylphenol, 3 & 4 Mitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene
	Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste

Los Angeles 2016 Sacramento 2017 Sacramento 2017 Sacramento 2017 Fresno 2016 Los Angeles 2016 Raleigh 2017 Archdale 2015 Barre 2015 Chandler 2015 Saft Lake City 2015 St Pauls 2015 Avichita 2015 Vichita 2015 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015 Fresno 2015 Albuquerque 2016 Fresno 2015 Fr	0 L 0 A R
0.05	
0.025 mg/L 0 0 0.25 mg/L 0 0.25	
180-58024-1 0.05 0.025 180-58643-1 0.05 0.025 180-65483-1 0.05 0.025 180-70521-1 0.05 0.025 180-70518-1 0.05 0.025 180-70518-1 0.05 0.025 180-70390-1 0.73 0.365 180-43674-1 1 0.5 180-43674-1 1 0.5 180-4375-1 1 0.5 180-4375-1 1 0.5 180-4375-1 1 0.5 180-4375-1 1 0.5 180-4375-1 1 0.5 180-4375-1 1 0.5 180-48520-1 1 0.5 180-48520-1 1 0.5 180-48520-1 1 0.5 180-48520-1 1 0.5 180-49523-1 1 0.5 180-49523-1 1 0.5 180-49523-1 1 0.5 180-51268-1 1 0.5 180-51270-1 1 0.5 180-5534-1 1 0.5 180-55534-1 1 0.5 180-55534-1 1 0.5	
Nitrobenzene	Nitrobenzene
Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleania Nelated Waste Paint Gun Cleaner Related Waste Paint Waste

<b>C</b>		Oklahoma City 2017 Raleigh 2017 Salisbury 2017 Santa Ana 2017 St Pauls 2017 St Pauls 2017 Vinton 2017 Vinton 2017 Waukesha 2017 Wichita 2017 Chesapeake 2017		.a. ♣2 >>.	Clackamas Colboration (Clackamas 2015) Raleigh 2015 Tallahassee 2015 Albuquerque 2015 Farmington 2015 Fresno 2015 Fresno 2015 Sacramento 2015 Vinton 2015
			2 0.13 0.13 0.13 1.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			mg/L mg/L mg/L mg/L mg/L mg/L ng/L ng/L ng/L
					0.065 0.065 0.065 0.065 0.065 0.065
				0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13	0.13 0.13 0.13 0.13 0.13 0.13 0.13
180-56412-1 180-58270-1 180-65692-1 180-66032-1 180-68704-1	180-65188-1 180-70322-1 180-69211-1 180-68915-1 180-68638-1 180-68464-1	180-69240-1 180-70391-1 180-67818-1 180-68566-1 180-66257-1 180-66257-1 180-68957-1 180-64797-1	180-60015-1 180-60015-1 180-60751-1 180-60754-1 180-69824-1 180-43674-1 180-48436-1 180-42430-1	180-44140-1 180-48623-1 180-44375-1 180-45221-1 180-45023-1 180-48331-1 180-48170-1 180-48553-1 180-48553-1 180-48553-1 180-48554-1	180-47748-1 180-46330-1 180-49523-1 180-49253-1 180-49518-1 180-49518-1
Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene	Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene	Nitrobenzene	Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Nitrobenzene Pentachlorophenol Pentachlorophenol	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol
Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Kelated Waste Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

	Santa Ana 2015 Chandler 2016 Los Angeles 2016 Sacramento 2016 Salt Lake City 2017 Sacramento 2017
	69
	0.25 0.25 0.25 0.25 0.25 0.25
	mg/L U mg/L U mg/L O U mg/L O U mg/L O O Mg/L O O
	טו מו מו מו מו מו
180-51440-1 0.13 180-49234-1 0.13 180-51270-1 0.13 180-5534-1 0.13 180-5534-1 0.13 180-5547-1 0.13 180-58402-1 0.13 180-58659-1 0.13 180-58737-1 0.13 180-58737-1 0.13 180-58737-1 0.13 180-58737-1 0.13 180-58731-1 0.13 180-58731-1 0.13 180-58731-1 0.13 180-58731-1 0.13 180-58731-1 0.13 180-68270-1 0.13 180-6838-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-68261-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60015-1 0.13 180-60017-1 0.13	180-52262-1 0.21 180-58227-1 0.21 180-58024-1 0.21 180-58643-1 0.21 180-65483-1 0.21
Pentachlorophenol	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol
Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

	2016 2017 2015 2016 2017 2017 2017 2018 2018 2018 2019 2015 2015 2016
Sacramento Fresno Los Angeles Farmington Barre Raleigh Oklahoma City St Pauls Farmington Boise Clackamas Chandler Charlotte Archdale Charlotte Boise Santa Ana Albuquerque Clackamas Raleigh Salisbury Highland Tampa Waukesha St Pauls Chesapeake Clackamas Tallahassee Vinton Farmington Sacramento Chester Barre Barre Barre Sacramento Charlotta	Sacramento Raleigh Sacramento Chandler Vinton Chester Clackamas Archdale Clackamas Los Angeles Farmington Chester Los Angeles Farmington Chester Los Angeles Farmington Chester Los Angeles Farmington Chester Los Angeles Chester Los Angeles Chester Los Angeles Chester Los Angeles Chester
	တ္ထ
	23
0.2.2.4.4.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	000000000000000000000000000000000000000
mg/L mg/L mg/L mg/L scriptor scriptor scriptor mg/L mg/L scriptor	No Units SU No Units No Units No Units SU
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	6.77 6.82 6.83 6.83 6.9 6.9 6.9 7 7 7 7.01
0.25 1.3 3.8 4.4 4.4 4.2 4.2 4.2 4.2 4.2 4.2	6.9 6.9 6.9 6.9 6.9 6.9 6.9 7 7 7
180-70518-1 180-58510-1 180-69824-1 180-60754-1 180-60240-1 180-60240-1 180-60211-1 180-68915-1 180-68915-1 180-68915-1 180-68915-1 180-68915-1 180-68723-1 180-68723-1 180-68723-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1 180-6855-1	180-58643-1 180-70390-1 180-49234-1 180-58227-1 180-58677-1 180-65692-1 180-65692-1 180-68638-1 180-68638-1 180-54775-1 180-5017-1 180-5017-1
Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Ph	
Paint Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

Farmington 2016 Chandler 2015 Farmington 2017 Chester 2015 Archdale 2016 Fresno 2015 Vinton 2017 Vinton 2015 Barre 2015 Santa Ana 2015	Clackamas 2015 Chesapeake 2017 Archdale 2015 Fresno 2016 Los Angeles 2016 Wichita 2015 Chesapeak 2015 Chesapeak 2015 Chesapeak 2015 Charlotte City 2016 St. Pauls 2015 Tulsa 2015 Tulsa 2015 Tulsa 2016 Fresno 2016 St. Pauls 2016 St. Pauls 2015 Charlotte 2016 Salt Lake City 2017 Charlotte 2016 Sarcamento 2015 Charlotte 2016 Sacramento 2015 Sacramento 2017 Sacramento 2017 Sacramento 2017 Sacramento 2017 Sacramento 2017 Sacramento 2017 Sacramento 2016 Charlotte 2015 Charlotte 2015 Charlotte 2015 Charlotte 2015 Chesapeak 2015 Chesapeak 2015 Chesapeak 2015 Chesapeak 2015 Chesapeak 2015	
	10000000000000000000000000000000000000	ດທ
No Units No Units SU No Units No Units SU No Units No Units No Units No Units No Units	ស សិសិសិសិស	mg/L U mg/L
7.18 7.18 7.18 7.19 7.2 7.2 7.22 7.24 7.25 7.25 7.25 7.35 7.3 7.35 7.43 7.43 7.64 7.64		
180-56458-1 180-43584-1 180-69824-2 180-44375-1 180-55534-1 180-66261-1 180-51268-1 180-51268-1 180-52262-1	180-47750-1 180-43674-1 180-58510-1 180-58510-1 180-43575-1 180-43575-1 180-6257-1 180-4253-1 180-4253-1 180-5873-1 180-5873-1 180-5873-1 180-5873-1 180-5873-1 180-5873-1 180-5873-1 180-58737-1 180-58737-1 180-58737-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58510-1 180-70518-1 180-43674-1 180-43674-1 180-43674-1 180-43674-1	180-46521-1 180-45023-1
		te Pyridine te Pyridine
Paint Gun Cleaner Related Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

2015 2015 2015 2015 2015 2015 2015 2015	
Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Barre Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Clackamas Farmington Fresno Fremington Vinton Albuquerque Archdale Boise Chandler Chester Clackamas Farmington Vinton Archdale Boise Chandler Chester Clackamas Farmington Los Angeles Los	Salisbury Santa Ana St Pauls St Pauls
88	
823	
, , , , , , , , , , , , , , , , , , ,	מממממ
	mg/L mg/L mg/L mg/L
0 10 10 10 10 10 10 10 10 10 10 10 10 10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
, א א א א א א א א א א א א א א א א א א א	ממממממ
180-46331-1 180-48575-1 180-48573-1 180-48523-1 180-48520-1 180-4377-1 180-4377-1 180-4377-1 180-4377-1 180-4377-1 180-4377-1 180-4377-1 180-4923-1 180-4923-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-51268-1 180-5534-1 180-5534-1 180-5534-1 180-5847-1 180-5847-1 180-5847-1 180-58731-1 180-58731-1 180-58731-1 180-58731-1 180-58731-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-58141-1 180-6911-1	180-69240-1 180-70391-1 180-70805-1 180-67818-1 180-68566-1
81 4-081 4-081 4-081 4-081 4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	780 180-7-180 180-7-180-6
Pyridine	Pyridine Pyridine Pyridine Pyridine Pyridine
Pyridine	P. P
Waste	Vaste Vaste Vaste Vaste
Cleaner Related Waste Paint Waste Paint Waste Cleaner Related Waste Paint Waste Cleaner Related Waste	Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Paint Waste
Cleaner Relat Cleaner Relat	Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste
	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste
	4 4 4 4

2016 2016 2016 2016 2016 2016 2016 2016	2015 2017 2017 2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
Charlotte Chester Clackamas Highland Santa Ana St. Pauls Tampa Tulsa Vinton Chester	Farmington Archdale Boise Chandler Chesapeake Clackamas Clackamas Los Angeles Los Angeles Los Angeles Vinton Vinton Vinton Waukesha Wichita Chesapeake Boise Chesapeake Boise Chesapeake Boise Chesapeake Boise Chesapeake Boise Chesapeake Boise Chesapeake Chesapeake Boise Chesapeake Chesapeake Boise Chesapeake Chesapeake Boise Chandler Chester Albuquerque Santa Ana Fresno Los Angeles Fresno Los Angeles Farmington Salt Lake City Sacramento Clackamas Chandler Clackamas Chandler Barre
88	
53	
	+ + + + + + + + + + + + + + + + + + +
2222222	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
8 9 7 7 7 8 8 8 8 7 8 8 8 8 8 8 8 8 8 8	7/6E E E E E E E E E E E E E E E E E E E
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.0
	0.5 1 1 1 1 1 1 1 1 1 1 1 1 1
180-58402-1 180-54775-1 180-58671-1 180-58737-1 180-58153-1 180-58141-1 180-58731-1 180-58731-1	180-56412-1 180-65692-1 180-6632-1 180-68704-1 180-65188-1 180-69211-1 180-69211-1 180-69240-1 180-69240-1 180-69240-1 180-6858-1 180-6856-1 180-6856-1 180-6856-1 180-6856-1 180-6015-1 180-60015-1 180-60015-1 180-60017-1 180-60017-1 180-60017-1 180-60017-1 180-6015-1 180-6015-1 180-60117-1 180-6548-1 180-47770-1 180-43584-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1 180-65483-1
Selenium	Selenium Sel
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

2015 2015 2015 2015 2015 2015 2015 2015	2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016	2016 2016 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017
Chandler Charlotte Chesapeak Chester Highland Los Angeles Oklahoma City Raleigh Salt Lake City St Pauls Tulsa Waukesha Wichita Barre Chester	Raleigh Tallahassee Albuquerque Farmington Fresno Sacramento Vinton Farmington Sacramento Vinton Albuquerque Archdale Boise Chandler Chandler Chandler Chandler Chandler Chandler Sacramento Sacramento Sart Lake City Sant Lake City	Tampa Tampa Tulsa Vinton Chandler Chester Clackamas Farmington Los Angeles Sacramento Vinton Archdale Boise Chandler Chesapeake Clackamas Farmington Los Angeles
	8	3
	E	3
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3555555555555555555
7,564 1,564 1,664 1,	7,564 7,264	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0 0 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
180-42430-1 180-48623-1 180-48375-1 180-46375-1 180-46521-1 180-4653-1 180-48170-1 180-44553-1 180-44553-1 180-44553-1 180-44553-1	180-46330-1 180-48519-1 180-49523-1 180-49553-1 180-49518-1 180-49518-1 180-51268-1 180-51268-1 180-55534-1 180-55534-1 180-55534-1 180-55534-1 180-55534-1 180-58402-1 180-58402-1 180-58402-1 180-58653-1 180-58653-1 180-58653-1	180-56002-1 180-58141-1 180-5873-1 180-5827-1 180-58277-1 180-58427-1 180-5843-1 180-687692-1 180-68592-1 180-68704-1 180-68704-1 180-68711-1 180-69211-1 180-69211-1
\$\frac{\pi}{\pi}\$\frac{\pi}{\p	8	
Silver Silver Silver Silver Silver Silver Silver Silver Silver	Silver	Silver Silver Silver Silver Silver Silver Silver Silver Silver Silver
w w w w w w w w w w w w w w	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, w w w w w w w w w w w w w w w w w
Waste	Waste	Waste
Cleaner Related Waste Paint Waste	Paint Waste Paint Waste Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Cleaner Related Waste Gun Cleaner Related Waste	Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Cleaner Related Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Cleaner Related Waste
Cleaner Rela Cleaner Rela	Paint Waste Paint Waste Cleaner Rela	Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Paint Waste Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela Cleaner Rela
Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun Paint Gun	Paint Waste Paint Waste Paint Gun Cleaner Related Waste	Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste

2017 2017 2017 2017 2017 2017 2017 2017	2017 2015 2015 2017 2017 2016 2015 2017 2016
Los Angeles Oklahoma City Raleigh Salisbury Santa Ana St Pauls St Pauls Vinton Waukesha Wichita Sacramento Chesapeake Chesapeake Archdale Highland Fresno Los Angeles Sacramento Los Angeles Fresno Los Angeles Sacramento Los Angeles Fresno Sacramento Fresno Fresno Fresno Sacramento Fresno Fresno Sacramento Fresno Fres	Sacramento Chester Chandler Farmington Chesapeake Chandler Santa Ana St Pauls Barre Chester Clackamas Clackamas Clackamas
	8
00000000000000000000000000000000000000	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
,	2
	7/6w 7/6w 7/6w 7/6w 7/6w 7/6w 7/6w
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	- ((((((()))))
$\begin{array}{c} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	2 - 2 2 2 2 2 2 2 3 4 4 4 4 6 8 8 8 8 8 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
180-68464-1 180-69240-1 180-70391-1 180-687818-1 180-687818-1 180-6856-1 180-6857-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-60015-1 180-68015-1 180-58510-1 180-58510-1 180-58510-1 180-58510-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-58643-1 180-68632-1 180-68643-1 180-68412-1 180-6818-1 180-6818-1	180-70518-1 180-44377-1 180-51441-1 180-51441-1 180-68015-1 180-68566-1 180-48520-1 180-54776-1 180-54776-1 180-54776-1 180-51268-1
Silver Tetrachloroethene	Tetrachloroethene
Paint Waste Cleaner Related Waste	ste ste elated W ste ste ste elated W elated W elated W elated W
Paint Waste Cleaner Rela Cleane	Paint Waste Cleaner Rela Cleaner Rela Cleaner Rela Paint Waste Cleaner Rela Cleaner Rela
Paint Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Paint Waste

Salt Lake City 2016 St Pauls 2015 Boise 2016 Vinton 2017 Salt Lake City 2017 Raleigh 2015 Chester 2015 Raleigh 2015 Tallahassee 2015 Farmington 2016		
U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.55
7,000 m m m m m m m m m m m m m m m m m m		
8.1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
180-53844-1 180-48170-1 180-65257-1 180-65483-1 180-46331-1 180-46330-1 180-4855-1 180-4855-1 180-48519-1 180-48519-1	180-66261-1 180-43575-1 180-43575-1 180-48623-1 180-68915-1 180-68915-1 180-68271-1 180-68711-1 180-68741-1 180-68271-1 180-58742-1 180-58742-1 180-58741-1 180-5834-1 180-5834-1 180-60016-1 180-60016-1 180-60016-1 180-66957-1 180-66957-1 180-66957-1 180-66957-1 180-66957-1 180-66951-1 180-66951-1 180-66951-1 180-66951-1 180-66951-1	180-47750-1
Tetrachloroethene	Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	Trichloroethene
Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Gun Cleaner Related Waste

Los Angeles 2015 St Pauls 2015 Waukesha 2015 Wichita 2015 Chandler 2015 Fresno 2015 Fresno 2015 Sacramento 2015 Vinton 2015 Sacramento 2015 Vinton 2015	e on se con se c	Archdale Archdale Chandler Clackamas Clackamas Clackamas Los Angeles Los Angeles Los Angeles Salisbury Salisbury Santa Ana St Pauls Vinton Waukesha Barre Barre Chesapeake	Clackamas 2015 Sacramento 2017 Chesapeake 2017 Chandler 2015 Raleigh 2015 Albuquerque 2015 Barre 2015 Raleigh 2017 Albuquerque 2016 Raleigh 2017 Chesapeak 2015
			88 86 87
O O O O O O O O O O O O O	2 2 2 3 4 5 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		,	D D
	1997 - 19		7,6E 7,6E 7,6E 7,6E 7,6E 7,6E 7,6E 7,6E
0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25		0.0 6.7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
180-46521-1 180-48170-1 180-48058-1 180-43584-1 180-49518-1 180-49235-1 180-51268-1 180-51268-1	180-512/0-1 180-55534-1 180-53492-1 180-58458-1 180-58659-1 180-58153-1 180-58171-1 180-58271-1 180-58277-1 180-58677-1 180-58612-1	180-58270-1 180-65692-1 180-65188-1 180-69212-1 180-69212-1 180-6824-1 180-6824-1 180-68240-1 180-68240-1 180-67818-1 180-67818-1 180-6751-1 180-60257-1 180-60251-1	180-47748-1 180-70518-1 180-60015-1 180-42430-1 180-51441-1 180-51441-1 180-48520-1 180-70391-1 180-58742-1 180-48623-1
Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene
Paint Gun Cleaner Related Waste Paint Waste	Paint Waste Paint Gun Cleaner Related Waste Paint Waste Paint Waste Paint Waste	Paint Waste Paint Gun Cleaner Related Waste Paint Gun Cleaner Related Waste	Paint Waste Paint Waste Paint Waste Paint Gun Cleaner Related Waste

PARAMETER	LAB ID	RESULT	UNITS QUALIFIER REPORTING LIMIT FACILITY YEAR
1,1-Dichloroethene Average		0.77	
1,4-Dichlorobenzene Average		1.01	
2,4-Dinitrotoluene Average		0.31	
2-Methylphenol Average		0.894	
Arsenic Average		0.16075	
Barium Average		8.45118	
Benzene Average		18.9858	
Cadmium Average		0.09079	
Chlorobenzene Average		2.78	
Chloroform Average		19.4167	
Chromium Average		0.63202	
Flashpoint Average		71.9333	
Hexachloroethane Average		0.18	
Lead Average		1.217	
Mercury Average		0.01283	
Methyl Ethyl Ketone Average		60145.5	
pH Average		6.83978	
Selenium Average		0.36727	
Silver Average		0.1806	
Tetrachloroethene Average		19.0952	
Trichloroethene Average		10.4956	
Grand Average		9196.89	

R	15	(5	5	र प्	5	9	16	16	17	15	15	15	15	15	15	15	15	15	15	5	16	16	9,	16	9,	16	9,	9,00	ر د د	0 4	ō 6	5 7	17	17	1	17	17	17	17	17	15	15	17	17	19	17	17	- 4	15.	15	15	2015 2016	2
YEAR	2015	2015	2015	2015	2015	2016	2016	2016	2017		2015	2015			ss 2015														a 2016			2016														2017					2015	L 4	
FACILITY	Charlotte	Boise	Fresno	Vinton	Chandler	Archdale	Boise	Chester	Boise	Archdale	Barre	Boise	Chandler	Clackamas	Los Angeles	Raleigh	St Pauls	Waukesha	Wichita	Santa Ana	Albuquerque	Boise	Chandler	Charlotte	Farmington	Fresno	Highland	Kaleigh	Santa Ana	or. Pauls	Iulsa	Vinton	Albuquelque	Farmington	I os Andeles	Raleidh Raleidh	Salt Lake City	Vinton	Archdale	Barre	Highland	Farmington	Chandler	Tampa	Los Angeles	Chester	Archdalo	Charlotte	Boise	Fresno	Vinton	Chandler	
COUNT																														4	4 D																						
QUALIFIER REPORTING LIMIT Uth VALUE COUNT																														č	31																						
G LIMIT																																														_ (> 5	3.					
PORTIN	0.2	0.2	0.0	2.0	0.1	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	C.O. C	C.O.	0.5	O C	0.0	5 6	0.0	2.0	0.0	0.5	0.5	0.5	0.5	20	25	250	3200	3200	0051	0.0	0.2	0.2	0.2) 1
FIER RE											9)										_	_		_	_	_							. *			*		*		. –			_	_					. –	. –	_		
QUALI	n	=) =	> =) =) =		\supset	⊃	\supset	\supset	⊃	\supset	⊃	\supset	\supset	⊃	⊃	⊃)	⊃	⊃	⊃	⊃	⊃	⊃	⊃ :	. د	. ر	. ر	. د	. ر	> <u>-</u>	o =	> =	J =	o –	' =	, _	ر ,			ر	. ر	. ر		<i>-</i>	J _	<i>-</i>	ر ر	ر		,
UNITS	mg/L	ma/l	9 6	7 /S)) E	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1/8/L	mg/L	mg/L), / C	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg ma/l	TIG/L	mg/L	111g/L	ma/L	mg/L	mg/L	11g/L
KED DATA	_	_				- —		_	_	52	55	35	25	25	25	25	25	55	25	25	55	25	25	25	25	25	25	25	25	52	52	25	ζ,	ري در بر	. u	2 2	. v	25	0.25	25	84	0.87	0	12.5	25	220	3 8	6500		0.1	τ.	- -	-
RANKE	0.	C	. c	o c	. c	o	Ö	Ö	0.1	0.25	0.25	0.0	0.	0.	0.	0.0	0.3	0	0.	0	0	0	0	0	0	ö	0	0	o i	0	0.	Ö (0 0	o c	o c	o c	o c	o c	o	Ö	Ö	O.	~	17	; ;	7 5	₽ 8	Ω C	00	0	0	00	>
RESULT	0.2	0.0	2.0	2.0	2.0		0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	C.5	0.0	O 0	C. C		0.0	0.5	0.84	0.87	20	25	250	440	3200	13000	7.0	0.2	0.2	0.2	0.7
LABID	180-44143-1	180-42907-1	180 50272.1	100-502/2-1	180-31272-1	180-54966-2	180-52709-1	180-54769-1	180-68706-1	180-42712-1	180-48437-1	180-42913-1	180-42860-1	180-47760-1	180-46920-1	180-46229-1	180-48173-2	180-48053-1	180-47812-1	180-52266-1	180-58794-1	180-52712-1	180-57430-2	180-58397-1	180-56884-2	180-58509-1	180-58658-1	180-58494-1	180-58157-1	180-56181-1	80-58619-1	180-58267-1	80-70623-1	180-68699-1	1-1750	180-68639-1	180-70387-1	80-63461-1 80-66258-1	180-00236-1	180-60416-1	180-47872-1	180-51965-1	180-64912-1	180-60914-1	180-58021-1	180-66535-1	180-64913-2	180-65/89-1	180-44145-1	180-50272-1	180-51272-1	180-46420-1	180-54966-2
A	180-4	180.4	2001	100-0	000	180.1	180-5	180-5	180-6	180-4	180-4	180-4	180-4	180-4	180-4	180-4	180-4	180-4		•	180-5				180-5	180-5		`				14				, ,		_ <	1.5		·	·		,								, .	
FTER	roethene	roothone	roothono	roethene	roemene	roothone	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	.1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	, I-Dicnioroemene	,1-Dichloroethene	,1-Dichloroethene	, I-Dichloroethene	, I-Dichloroethene	, 1-Dichloroethene	1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	,1-Dichloroethene	1-Dichloroethene	,z-Dichloroemane	,z-Dichloroethane	,2-Dichloroethane	,2-Dichloroethane	1,2-Dichloroethane										
PARAMETER	1.1-Dichloroethene	1 1 Dichloroathana	1, 1-DICIED	1, I-Dichloroethene 1, 1 Dishloroethene	1, 1-Dichloroethene	1, 1-Dichloroethene	1 1-Dichlo	1 1-Dichlo	1.1-Dichlo	1.1-Dichlo	1,1-Dichlo	1.1-Dichlo	1.1-Dichlo	1.1-Dichlo	1.1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichlo	1,1-Dichic	1, 1-DICNIC	1,1-Dichlo	1,1-Dichic	1, 1-Dignic	1, 1-Dicilic	1.1-Dichle	1,1-Dichlo	1,1-Dichle	1,1-Dichle	1,1-Dichle	1,1-Dichlo	1,1-Dichle	1,1-Dichic	1,1-Dichlo	1,2-Dicnic	1,4-Dichle	1,2-Dichle	1,2-Dichle	1,z-Dicriik
	ttoms	,	•	TOTAL TOTAL	•	٠	Here ,	ters.	ters ,	ttoms ,	ttoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	ttoms	Bottoms	Bottoms	TTOTILS	offorms	thoms a	Bottoms	offorms	ilters	ottoms	ottoms	ottoms	ottoms	Bottoms	ottoms	liters	ottoms	ilters	ottoms
MATRIX	PERC Bo			PERC BO	PERC 50		PERC FI	PERCE	PERCE	PERC Bo	PERC Bo	PERC Bo	PERC Bo	PERC Bo	PERC	PERC	PERC	PERC	PERC	PERC	PERC	PERC	PERC Bo	PERC Bo	PERC			PERC Bo	PERC	PERC	PERC	PERC	PERC	PERC	PERC Bottoms	PERC BO	PERC BO		PERC Bottoms	PERC R	PERC B	PERC B	PERC F	PERC Bo	PERC BO	PERC Bottoms	PERC BO	PERC BO	PERC BO	PERC R	PERC B	PERC F	ア ト ス ス
MA	Dry Cleaning PERC Bottoms		DIY Cleaning PERC Fillers	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	DIJ Oleaning PERC Fillers	Dr. Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Cleaning PERC	Dry Cleaning PERC	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning	Cleaning PERC	Cleaning	Cleaning	Cleaning PERC	Cleaning	Cleaning PERC	Cleaning	Cleaning	Cleaning	Cleaning	Dry Cleaning	Cleaning	Cleaning	Dry Cleaning PERC	Dry Cleaning	Cleaning	Dry Cleaning	Dry Cleaning PERC Bottoms	Cleaning	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning	Dry Cleaning PERC Bottoms	Dry Cleaning	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Roffoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms
ř	2	5 6	<u> </u>	ב ב	2 2	<u> </u>	2 5	ב ב	2 5	2 5	2		2 0	2	2 0	20	2	, <u>C</u>	D V	, D	DO.	Dry	D	D	Dry	D	٥	Dry	Dry	Duy	Day	Dry	٥	<u>ک</u> ۵	ט כ	טיס	ם ק	ב כ	בי ב בי	ב ב ב	2 5		_		D	ا ت	ם ה	ם כ	5 5	2 5	5	، ۾	7

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2015 2015 2015 2015 2015 2015 2015 2015
Boise Chester Boise Archdale Barre Boise Clackamas Highland Los Angeles Raleigh St Pauls Waukesha Wichita Farmington Santa Ana Albuquerque Boise Charlotte Farmington Fresno Highland Raleigh Santa Ana St. Pauls Tulsa Vinton Boise Farmington Los Angeles Raleigh Santa Ana St. Pauls Tulsa Vinton Boise Farmington Los Angeles Raleigh Salt Lake City Vinton Barre Archdale Chandler Tampa Los Angeles Chandler Tampa	Archdale Charlotte Boise Fresno Vinton Chandler Archdale Boise Chester Boise Farmington Raleigh Barre Chandler
64	
8	
2.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28,6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
7/6 E E E E E E E E E E E E E E E E E E E	7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6 7/6
0.1 0.1 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	6500 0.1 0.1 0.1 0.1 0.1 0.25 0.23
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	0.22 0.22 0.22 0.22 0.22 0.23 0.23 0.23
180-52709-1 180-52709-1 180-68706-1 180-42712-1 180-42913-1 180-42913-1 180-42860-1 180-4760-1 180-48053-1 180-52266-1 180-52266-1 180-52266-1 180-52266-1 180-52266-1 180-58397-1 180-58397-1 180-5839-1 180-58494-1 180-58411-1 180-58619-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68691-1 180-68691-1 180-68691-1 180-68691-1 180-68691-1 180-68691-1	180-64313-1 180-65789-1 180-42907-1 180-50272-1 180-54966-2 180-54966-2 180-5709-1 180-5709-1 180-5709-1 180-68706-1 180-4887-1 180-4887-1
1,2-Dichloroethane	1,2-Dichloroethane 1,2-Dichloroethane 1,4-Dichlorobenzene
Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC	

2015 2015 2015 2017 2017 2017 2016 2016 2016 2016 2016 2016 2016 2016	2016 2015 2015 2016 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015
Clackamas Highland Waukesha Farmington Highland Barre Boise Vinton Albuquerque Archdale Salt Lake City Farmington Vinton Santa Ana Boise Chandler Tulsa Raleigh Los Angeles Charlotte St Pauls Boise Los Angeles Charlotte St Pauls Boise Charlotte St Pauls Boise	Fresno Wichita Santa Ana Raleigh Chandler Tampa St. Pauls Los Angeles Chandler Archdale Boise Fresno Vinton Chandler Archdale Boise Chandler Archdale Boise Chandler Archdale Boise Chandler Chandler Chandler Archdale Boise Chandler Chandler Archdale Boise Chandler Archdale Barre Boise Chandler Archdale Barre Boise Chandler Archdale Boise Chandler Chandler Archdale Boise Chandler Archdale Boise Chandler Cha
64	
2	40
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5 0.05 0.05 0.05 0.05
	>> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
0.25 0.25 0.25 0.27 0.28 0.39 0.39 0.09 0.09 0.11 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	5.7 6.6 6.9 10. 12.5 12.5 12.5 12.5 12.5 12.5 13. 12.5 10.025 0.02
0.5 0.5 0.5 0.5 0.27 0.39 0.39 0.58 0.79 0.99 0.99 1.6 1.6 1.6 1.8 2.2 2.2 2.2 4.1	6.6 6.9 6.9 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5
180-47760-1 180-47872-1 180-48053-1 180-65927-1 180-68699-1 180-68699-1 180-6884-2 180-5884-2 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58137-1 180-686397-1	180-58509-1 180-47812-1 180-58494-1 180-6914-1 180-60914-1 180-56181-1 180-56181-1 180-6535-1 180-6535-1 180-6535-1 180-6420-1 180-64212-1 180-64912-1 180-64912-1 180-64913-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4213-2 180-4772-1 180-4860-1 180-4772-1
1,4-Dichlorobenzene	1,4-Dichlorobenzene 1,4-Dichlorophenol 2,4,5-Trichlorophenol
Dry Cleaning PERC Bottoms Dry Cleaning PERC	Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC

2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2017	2017	2017	2017	2017	2017	2017	2016	2016	2015	2017	2015	2010	2010	2017	2016	2016	2013	2015	2015	2015	2016	2016	2017	2017	2017	2017	2015	2013	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2016	2016	2010
Wichita	Farmington	Albuduerone	Boise	Charlotte	Farmington	Fresno	Raleigh	St. Pauls	Vinton	Albuquerque	Boise Los Angeles	Raleigh	Salt Lake City	Vinton	Archdale	Barre	Los Angeles	Tulsa	St Pauls	Farmington	Waukesna	Highland	Santa Ana	Chester	Chandlar	Chandler	Bolse	Vinton	Chandler	Archdale	Boise	Chester	Boise	Chandler	Tampa	Chandler	Archdale	Boise	Chandler	Charlotte	Clackamas	Highland	Los Angeles	Raleigh	St Pauls	Waukesha	Farmington	Santa Ana	Albuquerque	Boise	Clariotte
								,	49																																										
									31																																										
0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.25	0.13	0.13	0.13	0.13	0.13	0.63	2 6	2 6	70 50	0.05	0.03	0000	0.03	0.05	0.05	0.05	0.05	0.05	0.063	0.13	0. c.	0.0	o c 5 6		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	5.0
⊃)	> =	o =) ⊃	⊃	⊃	ɔ :	o :	> :	> =	o =	> =) ⊃	כ	⊃	n	۵	۵		۵	ο.	:)	> =)))	> =	> =	o =) ⊃	· ⊃	Þ	o)	⊃:	> =	o =	> =) =) ⊃	_)	⊃	⊃	⊃	כ	: כ	> =	>
mg/L	mg/L	mg/L	mg/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg	mg/L	mg/L	mg/L	mg/∟ ‱″′	mg/L	mg/L	mg/L	mg/L	1 (/bu	1/6H	ma/L	ma/L	mg/L																						
0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.003	0.065	0.065	0.065	0.125	0.16	0.32	0.42	1.7	1.7	ა. თ. ს	ΩL	د د	10	0.025	0.025	0.025	0.025	0.023	0.025	0.025	0.025	0.025	0.0315	0.065	0.065	0.065	0.065	0.003	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.005
0.13	0.13	0.13	0.0		0.13	0.13	0.13	0.13	0.13	0.13	0.13	3 6	0.0	0.13	0.13	0.13	0.25	0.16	0.32	0.42	1.7	1.7	თ. ი	5 5	10	20	0.05	0.0 0.0 1.0	0.05	0.00	0.03	0.05	0.05	0.05	0.05	0.063	0.13	0.13	0.13	2.0	2.5	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180-47812-1	180-51965-1	180-52266-1	180-50742-1	180-58397-1	180-56884-2	180-58509-1	180-58494-1	180-56181-1	180-58267-1	180-70623-1	180-68699-1	100-00039-1	180-65481-1	180-66258-1	180-60898-1	180-60416-1	180-58021-1	180-58619-1	180-48173-2	180-65927-1	180-48053-1	180-58658-1	180-58157-1	180-65789-1	180-66535-1	180-57430-2	180-42907-1	180-502/2-1	180-512/2-1	180-46420-1	180-54966-2	180-54769-1	180-68706-1	180-64912-1	180-60914-1	180-64913-2	180-42712-1	180-48437-1	180-42913-1	180 4443.2	180-44-145-2	180-47872-1	180-46920-1	180-46229-1	180-48173-2	180-48053-1	180-51965-1	180-52266-1	180-58794-1	180-52712-1	180-58397-1
2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-1 richlorophenol	2,4,5 Trichlorophenol	2.4.5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,3-Trichlorophenol	2,4,5-Trichlorophenol	2.4.5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol			2,4,5-Trichlorophenol	4	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-1 richlorophenol	2,4,6-Trichlorophenol	1 4	2,4,9-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-1 richlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2, 4,6 Trichlorophenol	2.4.6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	2,4,6-I richlorophenol						
Dry Cleaning PERC Bottoms		Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC Bottoms	Cleaning PERC	Cleaning	Dry Cleaning FERC Bottoms	PERC	PERC	PERC	Dry Cleaning PERC Bottoms	Cleaning	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	PERC	Dry Cleaning PERC Bottoms		Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning FENC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Cleaning PERC	Cleaning PERC	PERC	Cleaning PERC	7 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	Dry Cleaning PERC Bottoms	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning	Dry Cleaning PERC Bottoms				

2016 2016 2016 2016 2016 2017 2017 2017 2017	2014 2014 2014 2014 2014 2014 2014 2014	2017 2017 2018 2018 2018 2018 2018 2018 2018	2016 2016 2016 2016 2016 2016 2017 7
Farmington Highland Raleigh Santa Ana St. Pauls Vinton Albuquerque Farmington Los Angeles Raleigh Salt Lake City Vinton	Barre Los Angeles Fresno Boise Tulsa Wichita Archdale Chandler Boise Fresno Vinton Chandler Archdale Boise Fresno Chandler Boise Fresno Chandler Boise Boise Boise	Chandler Tampa Archdale Barre Boise Charlotte Clackamas Highland Los Angeles Raleigh St Pauls	Santa Ana Albuquerque Boise Charlotte Fresno Highland Raleigh Santa Ana St. Pauls Tulsa Albuquerque Boise Farmington
64			94
20			34
0.000000000000000000000000000000000000	0.13 0.13 0.13 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.00 0.05 0.13 0.13 0.13 0.13 0.13 0.13	£1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0 £1.0
	ככככככככפ בכ		
7,60 1,00	7,86 7,867 7,867 7,867 7,867 7,867 7,867 8,87 8,8	7/50 1/50 1/50 1/50 1/50 1/50 1/50 1/50 1	7/5m 7/5m 7/5m 7/5m 7/5m 7/5m
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.125 0.28 0.28 0.47 0.54 10 0.025 0.025 0.025 0.025 0.025 0.025	0.025 0.025 0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.13 0.25 0.28 0.47 10 10 10 20 0.05 0.05 0.05 0.05 0.05	60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £
180-56884-2 180-58658-1 180-58157-1 180-58157-1 180-523-1 180-65927-1 180-68639-1 180-65481-1 180-6558-1 180-6558-1	180-60416-1 180-58021-1 180-58509-1 180-68699-1 180-65789-1 180-65789-1 180-657430-2 180-57430-2 180-51272-1 180-54966-2 180-54966-2 180-54769-1 180-54769-1	180-64912-1 180-60914-1 180-42712-1 180-42860-1 180-47413-2 180-47760-1 180-47760-1 180-4780-1 180-46229-1 180-48173-2	180-52266-1 180-58794-1 180-58737-1 180-5859-1 180-5858-1 180-58494-1 180-58494-1 180-58157-1 180-58619-1 180-58619-1 180-58699-1
2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol	2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene	2,4-Dinitrotoluene	2,4-Dinitrotoluene
PERC Bottoms	Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters	Cleaning PERC	Dry Cleaning PERC Bottoms

Los Angeles 2017 Raleigh 2017 Vinton Archdale 2017 Vinton Archdale 2017 Barre 2017 Vinton Chandler 2015 Vinton Farmington 2016 Archdale 2015 Vinton Chandler 2015 Chandler 2015 Vinton 2015 Chandler 2015 Fresho 2015 Fresho 2015 Chandler 2015 Archdale 2017 Chandler 2015 Fresho 2015 Chandler 2015 Chandler 2015 Archdale 2015 Roleigh 2017 Chandler 2015 Boise 2015 Fresho 2015 Chandler 2015 Chandler 2015 Roleigh 2015 Chandler 2015 Raleigh 2015 Raleigh 2015 Raleigh 2015 Raleigh 2016 Farmington 2016 Farmington 2016 Farmington 2016 Farmington 2016 Raleigh 2017 Raleigh	sa lue
0.13 0.13 0.13 0.063 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	
0.065 mg/L 0.065 mg/L 0.065 mg/L 0.065 mg/L 0.24 mg/L 0.025 mg/L 0.05 mg/L	0.5 mg/L 0.5 mg/L 0.5 mg/L 0.5 mg/L
0.13 0.13 0.13 0.02 0.02 0.05 0.05 0.05 0.05 0.05 0.05	न क्रिकेट क्रिकेट कर्म
180-68639-1 180-68639-1 180-65481-1 180-66258-1 180-60898-1 180-60898-1 180-60416-1 180-64913-2 180-442907-1 180-5826-1 180-5826-1 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-64913-1 180-6884-2 180-6884-2 180-6889-1 180-6889-1 180-6889-1 180-6889-1	180-585 19-1 180-58267-1 180-58599-1 180-65927-1 180-68639-1
2,4-Dinitrotoluene 3,4-Dinitrotoluene 3,4-Dinitroto	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol
Cleaning PERC CL	Dry Cleaning PERC Bottoms

2017 2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017
Raleigh Salt Lake City Vinton Archdale Barre Archdale Chester Chandler Boise Los Angeles Tampa Charlotte Boise Fresno Vinton Archdale Boise Chardale Roise Chandler Chardale Roise Chandler Archdale Boise Chandler Archdale Barre Clackamas Highland Los Angeles Raleigh St Pauls Waukesha Wichita Farmington Santa Ana Albuquerque Farmington Fresno	Highland Raleigh St. Pauls Tulsa Vinton Albuquerque Boise Farmington Raleigh Vinton Archdale Barre Boise Los Angeles Chester Charlotte Santa Ana
	64
	E E
500 600 600 600 600 600 600 600 600 600	E
ככככככככככ ככככככ ביכייככככככ	
20	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
0.5 0.5 0.5 0.05 0.045 0.045 0.045 0.045 0.045 0.055 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.032 0.045 0.045 0.05 0.05 0.05 0.05 0.05 0.	
180-70387-1 180-65481-1 180-6628-1 180-60898-1 180-65789-1 180-65789-1 180-6535-1 180-6535-1 180-6535-1 180-64913-2 180-64913-2 180-64913-2 180-5709-1 180-5709-1 180-5709-1 180-5709-1 180-5789-1 180-5709-1 180-5709-1 180-64912-1 180-64912-1 180-64912-1 180-64912-1 180-64912-1 180-64912-1 180-65789-1 180-65789-1 180-64912-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65266-1 180-65266-1 180-68794-1	180-58658-1 180-58658-1 180-58494-1 180-58619-1 180-58267-1 180-68699-1 180-66258-1 180-60388-1 180-60416-1 180-52712-1 180-5898-1 180-5813-1 180-68639-1
2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 3-Methylphenol 3-Meth	Arsenic
Dry Cleaning PERC Bottoms Dry Cleaning PERC	Cleaning PERC

2015 2015 2015 2015 2015 2016 2017 2016 2015 2015 2015 2015 2015 2015 2015 2015	2015
Sait Lake City Vinton Boise Boise Tampa Chester Boise Archdale Clackamas Chandler Chandler Chandler Vinton Los Angeles Archdale Chandler Vinton Los Angeles Fresno Barre Raleigh Farmington Los Angeles Fresno Barre Raleigh Farmington Los Angeles Fresno Barre Raleigh Farmington Chandler Vinton Highland Archdale Salt Lake City St. Pauls Santa Ana Wichita Fremington Charlotte Boise Charlotte Boise Albuquerque Boise Archdale Tulsa Charlotte Boise Archdale Tulsa Chester Charlotte Boise Fresno Vinton	Chandler
31 49	
	0.2
~~~~~~~*******************************	)
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/L mg/L
2.8 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.0000 0.0000 0.000	0.00
2.8 0.0024 0.0045 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.0063 0.006	0.2 2 2 2
180-65481-1 180-52709-1 180-52709-1 180-60914-1 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-649120-1 180-64912-1 180-64912-1 180-65789-1 180-65789-1 180-65789-1 180-65789-1 180-65781-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-65411-1 180-66535-1 180-68699-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1	180-46420-1 180-54966-2
Arsenic Barium	Benzene Benzene Benzene
Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC	Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms

	2017 2017 2017 2015 2015 2015 2015 2017
Boise Chester Boise Archdale Barre Boise Chandler Clackamas Highland Los Angeles Raleigh St Pauls Wichita Farmington Santa Ana Albuquerque Boise Chandler Chandler Chandler Chandler Chandler Chandler Raleigh Santa Ana St. Pauls Tulsa Vinton Fresno Highland Raleigh Santa Ana St. Pauls Tulsa Vinton Fresno Highland Raleigh Santa Ana St. Pauls Tulsa Vinton Boise Farmington Los Angeles Raleigh Salt Lake City Vinton Barre Archdale Chandler Tampa Los Angeles Chandler Archdale Vinton Chandler Vinton	Tampa Chester Boise Los Angeles Archdale Los Angeles St Pauls Santa Ana Highland Los Angeles Charlotte
64	
$\Xi$	
0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.55 0.25 0.25 0.25 0.55 0.05
	,,,,,,,,,,,,,
7/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1/6u 1	
0.11 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.012 0.013 0.015 0.032 0.032 0.033 0.035 0.035
0.2 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.012 0.013 0.013 0.03 0.032 0.033 0.033 0.035
180-52709-1 180-54769-1 180-68706-1 180-42712-1 180-42913-1 180-42913-1 180-42913-1 180-42920-1 180-46229-1 180-46229-1 180-51256-1 180-5185-1 180-58794-1 180-58794-1 180-58794-1 180-5884-2 180-5884-2 180-5884-2 180-5884-2 180-588157-1 180-58819-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-69918-1 180-60918-1 180-60918-1 180-60918-1 180-60918-1	180-5/430-1 180-60914-1 180-68706-1 180-65789-1 180-48173-2 180-48173-2 180-47872-1 180-68639-1
Benzene	Cadmium
Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms

2015 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	
Wichita Boise Archdale St. Pauls Farmington Santa Ana Archdale Vinton Charlotte Albuquerque Chandler Raleigh Farmington Vinton Boise Barre Highland Waukesha Albuquerque Chandler Clackamas Raleigh Boise Farmington Chandler Fresno Raleigh Boise Fresno Salt Lake City Charlotte Boise Fresno Vinton Chandler Tulsa Charlotte Boise Fresno Vinton Chandler Tulsa Charlotte Boise Fresno Vinton Chandler Fresno Vinton Chandler	Chester Boise Archdale Barre Boise Chandler Clackamas Highland Los Angeles Raleigh St Pauls Waukesha
64	
₽	
0.000000000000000000000000000000000000	00000000000000000000000000000000000000
~~~~~ [@] ~~~~~~ [@] ~~~~~~~~~~~~~~~~~~~~~~	
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0.04 0.042 0.043 0.045 0	0.1 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
0.04 0.043 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.05 0.0	1 C C C C C C C C C C C C C C C C C C C
180-47812-1 180-52712-1 180-56181-1 180-65927-1 180-65927-1 180-6898-1 180-58397-1 180-64913-2 180-6418-1 180-6258-1 180-6258-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-5869-1 180-5869-1 180-5869-1 180-58619-1 180-64912-1 180-64912-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-65481-1	180-527-03-1 180-54769-1 180-68706-1 180-42913-1 180-42913-1 180-42913-1 180-4520-1 180-46920-1 180-46173-2 180-48173-2 180-48053-1
Cadmium Cadmiu	Carbon Tetrachloride
Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC	

Farmington 2015 Santa Ana 2015 Albuquerque 2016 Boise 2016 Chandler 2016 Charlotte 2016 Farmington 2016 Highland 2016 Raleigh 2016	St. Pauls 2016 Tulsa 2016 Vinton 2016 Vinton 2017 Boise 2017 Raleigh 2017 Raleigh 2017 Salt Lake City 2017 Vinton 2017 Archdale 2017 Barre 2017 Archdale 2017 Chandler 2017 Archdale 2017 Archdale 2017 Archdale 2017 Boise 2016 Chandler 2015 Chandler 2015 Archdale 2016 Boise 2015 Chandler 2016 Boise 2015 Chandler 2016 Boise 2015 Chandler 2016 Boise 2015 Chandler 2016 Boise 2016 Chandler 2016 Chandler 2016 Boise 2016 Chandler 2016 Boise 2017 Salt Lake City 2017 Vinton 2017 Barre 2017 Raleigh 2017 Vinton 2017 Barre 2017	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8	
7/8w 0 7/8w 0 7/8w 0 7/8w 0 7/8w 0 7/8w 0 7/8w 0 7/8w		
0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	
180-51965-1 0.5 180-52266-1 0.5 180-58794-1 0.5 180-52712-1 0.5 180-5730-2 0.5 180-58397-1 0.5 180-58509-1 0.5 180-58658-1 0.5 180-58494-1 0.5	180-56181-1 0.5 180-58619-1 0.5 180-58267-1 0.5 180-6829-1 0.5 180-6839-1 0.5 180-6839-1 0.5 180-6839-1 0.5 180-6839-1 0.5 180-6839-1 0.5 180-6839-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5 180-68639-1 0.5	
Carbon Tetrachloride	Carbon Tetrachloride Chlorobenzene	
	Dry Cleaning PERC Bottoms Dry Cleaning PERC	

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-
Earnington Barre Charlotte Wichita St. Pauls Tulsa St. Pauls Tulsa St. Pauls Raleigh Charlotte Archdale Raleigh Fresno Santa Ana Highland Los Angeles Chardler Archdale Boise Chardler Raleigh Fresno Vinton Chardler Raleigh Fresno Vinton Chardler Boise Chardler Boise Chardler Raleigh St. Pauls Wichita Santa Ana Albuquerque Boise Chardler Boise Chardler Raleigh St. Pauls Wichita Santa Ana Albuquerque Boise Chardler Clackamas Highland Los Angeles Chardler Boise Chardler Boise Chardler Raleigh St. Pauls Wichita Santa Ana Albuquerque Raleigh St. Pauls Tulsa Vinton Fresno Highland Raleigh St. Pauls	- which have been dearly and the second
64	
33	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4
בפבפבפבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבב)
7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E 7/56E	Пg/L
0.3 0.33 0.33 0.67 0.67 0.67 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	-
0.033 0.033 1 1 1 1 0.059 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	٧
180-51965-1 180-48437-1 180-48437-1 180-48143-1 180-56181-1 180-58619-1 180-58619-1 180-58494-1 180-58494-1 180-58397-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-6535-1 180-48173-2 180-48173-2 180-48173-2 180-48437-1 180-4860-1 180-5266-1 180-5266-1 180-5266-1 180-58794-1 180-58397-1 180-58397-1 180-58894-1 180-58894-1 180-58894-1 180-58894-1	180-70623-1
Chlorobenzene Chloroform	Chlorotorm
Dry Cleaning PERC Bottoms Dry Cleaning PERC	Dry Cleaning PERC Bottoms

		*7																																														
2017	2017	2017	2017	2017	2017	2015	2017	2017	2017	2017	2017	2017	2016	2013	2017	2016	2015	2015	2015	2016	2015	2016	2017	2016	2017	2017	2015	2016	2017	2017	2016	2017	2016	2015	2017	2015	2016	2017	2017	2016	2016	2016	2015	2010	2015	2015	2015	
Boise	Los Angeles	Raleigh	Sait Lake Oity	Archdale	Barre	Farmington	Chandler	l os Angeles	Chester	Chandler	Archdale	Tampa	Archdale	Charlotter	Boise	Chester	Boise	Fresno	Chandler	Bolse	Clackanas	l os Angeles	Archdale	Chandler	Albuquerque	Archdale	Farmington	Vinton	VINTON	Los Angeles	Santa Ana	Salt Lake City	Raleigh	Los Angeles	Raleign St Dauls	Fresho	St. Pauls		Barre	Boise	Charlotte	Tulsa	Archdale	Dalle	Santa Ana	Wichita	Raleigh	
																																						31 49	2									
2 2	7 7	0.0	7 0	1 0	2	7 5	70 3E	750 250	440	12000	13000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5 5.0	C. C.	50 O	0.5	0.05	0.5	0.25	0.5	0.5	Ç. 5		0.5	0.5	0.5	0.0 10.0	ن دن م		0.0	0.5	0.5	0.5	0.5	0.5	O O	G. C	ی در در	0.0	0.5	
> =))	⊃:	> =) ⊃	⊃	ı	> =) =	> =) ⊃	D	¬ !	g -	¬ =) ¬	JB	コ	Þ)	> =	o -	ס			В		,	മ	ם מב	Ω α)		В			α	ב		ω		В					ш	1	
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Ka	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/r ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		τ.			Ψ	φ :	10	12.5	220	0009	6500	0.039	0.047	0.061	0.083	0.21	0.25	0.25	0.25	0.25	0.25	0.43	0.04 1.5	, σ	2.1	2.2	2.7	4.7	5.4	ט מ	6.7	6.7	7	7.2	4.7	/·/	o. o	96	10	7		11	, 5	75	, <u>,</u>	<u>5</u> 4	17	
2.5	7 7	2	7 0	1 7	2	9	20	25.0	440	12000	13000	0.039	0.047	0.061	0.0	0.21	0.5	0.5	0.5	0.5	0.5	0.40	1.5	. .	2.1	2.2	2.7	4.7	5.4	ט ע	6.0	6.7	7	7.2	4.7	7.7	o o	96	10	1	7	1	12	12	(, 5	<u>5</u> 4	17	
180-68699-1	180-68639-1	180-70387-1	180-65481-1	180-60898-1	180-60416-1	180-51965-1	180-64912-1	180-60914-1	180-56535-1	180-64913-2	180-65789-1	180-60914-1	180-54966-2	180-51272-1	180-64913-2	180-54769-1	180-42907-1	180-50272-1	180-46420-1	180-52709-1	180-64912-1	180-47760-1	180-56021-1	180-57430-1	180-70623-1	180-65789-1	180-51965-1	180-58267-1	180-66258-1	180-4/8/2-1	180-58157-1	180-65481-1	180-58494-1	180-46920-1	180-70387-1	180-481/3-2	180-56181-1	180-65927-1	180-60416-1	180-52712-1	180-58397-1	180-58619-1	180-42712-1	180-48437-1	180-48053-1	180-32266-1	180-46229-1	: :
Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chloroform	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	· · · · · · · · · · · · · · · · · · ·
Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms	Div Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Cleaning PERC	PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning FERC	Cleaning PERC	Cleaning PFRC	Cleaning PERC	Cleaning	Cleaning PERC	Cleaning PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning PERC								

2016 2017 2017 2017 2017 2017 2017 2017 2017	2015
Farmington Chandler Highland Boise Charlotte Boise Charlotte Boise Archdale Barre Clackamas Highland Los Angeles Raleigh St Pauls Wichita Fresno Highland Los Angeles Raleigh Archdale Chandler Fresno Highland Los Angeles Santa Ana Boise Archdale Chandler Farmington Chandler Fresno Vinton Raleigh Santa Ana Boise Archdale Barre Fresno Vinton Chandler Farmington Cohandler Fresno Vinton Raleigh Archdale Boise Boise Chandler Fresno Vinton Chandler Raleigh Archdale Boise Boise Chandler Chandler Fresno Vinton Chandler Fresno Vinton Chandler Boise Boise Chester Farmington St. Pauls Boise	Chandler
94	
E.	
0.000.00000000000000000000000000000000	,
α	
イイイイイスター も も も も も も も も も も も も も も も も も も も	268 T
190/L	Degrees
4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	151
7 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	151
180-56884-2 180-4286-1 180-42913-1 180-68699-1 180-68535-1 180-48437-1 180-48437-1 180-48437-1 180-48437-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-68799-1 180-68799-1 180-68799-1 180-68799-1 180-68799-1 180-6898-1 180-68799-1 180-68799-1 180-68799-1 180-6858-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1	180-68699-1 180-42860-1
	180
nium minimum m	Point
Chromium Chash Point Flash Point	riash Flash
Bottoms Bottom	toms
PERC BOTH	ERC Bot
Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms
Dry Cleaning	׆֞֞֞֞ ב ב

2015	2010	2013	2015	2015	2015	2016	2016	2016	2017	2017	2017	2017	2015	2015	2015	2015	2015	2015	2010	2010	2013	2012	201			2016	2016	2016	2016		2017	2017	2017	2017	2017	2017	707		2016		2016	2015	2016	2016			2017	2016	2015	2013	2012	2016	2016	
0401040	Boise	asion I	Fresno	Vinton	Chandler	Archdale	Boise	Chester	Boise	Chandler	Tampa	Chandler	Archdale	Barre	Boise	Chandler	Charlotte	Clackamas	Highiand	Kaleign	Mairocha	Waunesila	Farmington	Albuquerque	Roise	Santa Ana	St. Pauls	Tulsa	Vinton	Albuquerque	Boise	Farmington	Los Angeles	Raleigh	Vinton	Archdale	Barre	Los Angeles Highland	Charlotte	Salt Lake City	Raleigh	Santa Ana	Farmington	Fresno	Chester	Los Angeles	Archdale	Chandler	Boise	rresno Vinter	Chandler	Archdale	Boise	
																									6						49																				÷.			
																															31																							
	400	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.063	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13 8.43		0.00	0.7	0.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.75	2 C	0.13	0.13	0.13	0.13	0.13	2	0.13	10	20	0.05	0.05	0.05	0.05	0.05	
	Ξ)	⊃	\supset	⊃	⊃	⊃	⊃	⊃	⊃	コ	⊃	⊃)	5 :	-	o :	- :	> :) :	o :	o =	o =	o =	o =	> =) =) 그) <u> </u>) ⊃))) ⊃	⊃	⊃	* ⊃) :	> :	, ⊃ '	2.			۵	۵		⊃	۵	D)	⊃ :	o :	> =	; :) ⊃	
. L	Degrees F	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L me/l	mg/L	mg/L	mg/L	mg/L	m (/g/	, ma/l	mg/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L mg/l	mg/L ma/L	mg/L											
	91.1	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.0315	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.003	0.005	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.125	0.17	0.22	0.45	0.57	9.0	0.72	_	1.8	5	10	0.025	0.025	0.025	0.025	0.025	
	116	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.063	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.73	0.13	2 c		0.13	2 0	2.0	0.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.25)))	0.22	0.45	0.57	9.0	0.72	7	1.8	10	20	0.05	0.05	0.05	0.05	0.05	
	180-44143-1	180-42907-1	180-50272-1	180-51272-1	180-46420-1	180-54966-2	180-52709-1	180-54769-1	180-68706-1	180-64912-1	180-60914-1	180-64913-2	180-42712-1	180-48437-1	180-42913-1	180-42860-1	180-44143-2	180-47760-1	180-47872-1	180-46229-1	180-48173-2	180-48053-1	180-4/812-1	180-51965-1	180-58/94-1	180-527 12-1	180-56137-1	180-58619-1	180-58267-1	180-38297-1	180-68699-1	180-65927-1	180-68639-1	180-70387-1	180-66258-1	180-60898-1	180-60416-1	180-58021-1	180-58658-1	180-56397-1	180-58494-1	180-52266-1	180-56884-2	180-58509-1	180-66535-1	180-46920-1	180-65789-1	180-57430-2	180-42907-1	180-50272-1	180-51272-1	180-46420-1	180-52709-1	
	Flash Point	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexacillorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene Hexachlorobutadiene	Hexachlorobutadiene											
	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	PERC	Dry Cleaning PERC Bottoms	Cleaning PERC	Cleaning PERC	Cleaning		Cleaning	Cleaning	THY CALL CALL CALL CALL CALL CALL CALL CAL	Cleaning PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Dry Clearing PERC Bottoms	Dry Cleaning PERC Bottoms	Cleaning PERC	PERC	PERC	Dry Cleaning PERC Bottoms	PERC		PERC	Dry Cleaning PERC Bottoms	PERC	Dy Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms		Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters										

2016 2017 2017 2017 2015 2015 2015 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	2015 2015 2015
Chester Boise Chandler Tampa Archdale Charlotte Clackamas Los Angeles Raleigh St. Pauls Tulsa Vinton Raleigh St. Pauls Charlotte Barre Los Angeles Farmington Raleigh St. Pauls Charlotte Barre Archdale Barre Archdale Boise Fresno Vinton Chandler Boise Fresno Vinton Chandler Boise Chandler Boise Chandler Boise Chandler Boise Chandler Boise Chandler Archdale Boise Chandler Archdale	Archdale Barre Chandler
31 49	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ברברברברבר בפר ב פפר פרברברברברברברברברב	222
	mg/L mg/L mg/L
0.025 0.025 0.025 0.025 0.065	0.065 0.065 0.065
0.05 0.05 0.05 0.05 0.05 0.013	0.13
180-54769-1 180-64912-1 180-64912-1 180-60914-1 180-42712-1 180-4143-2 180-4143-2 180-4143-2 180-4143-2 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58794-1 180-58898-1 180-58619-1 180-65898-1 180-65898-1 180-65898-1 180-65898-1 180-65898-1 180-58658-1 180-58658-1 180-58658-1 180-58653-1 180-58653-1 180-58653-1 180-58653-1 180-57430-2 180-42913-1 180-51272-1 180-54913-2 180-54907-1 180-54769-1	180-42712-1 180-48437-1 180-42860-1
Hexachlorobutadiene	Hexachloroethane Hexachloroethane Hexachloroethane
Dry Cleaning PERC Filters Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms

2015 2015 2015 2015 2015 2015	2015 2016 2016 2016 2016 2016 2016 2016			2015 2016 2017 2017 2017 2015 2015 2015 2015 2015 2015
Charlotte Clackamas Highland Los Angeles Rateigh Waukesha	Vichita Santa Ana Albuquerque Boise Charlotte Farmington Fresno Highland Raleigh Santa Ana St. Pauls	Tulsa Boise Farmington Los Angeles Raleigh Salt Lake City Vinton Barre Los Angeles Vinton Boise Chandler	St Pauls Albuquerque Farmington Archdale Archdale Chester Chandler Chandler Vinton Boise Tampa	Los Angeles Boise Chester Boise Chandler Albuquerque Raleigh Clackamas Santa Ana Chandler Archdale St Pauls Santa Ana Los Angeles Los Angeles
		00		
		ল		
. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0.00 2.0.00 2.0.000 3.0.0000 3.0.00000 3.0.0000000000	0.13 0.13 0.13 0.13 0.25 0.03 0.063	0.13 0.13 0.13 10 10 20 20 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
22222		222222200	a 2227777	יכייכככ י
mg/L mg/L mg/L	1		mg/L mg/L mg/L mg/L mg/L mg/L mg/L	7/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1
0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065	0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.125 0.125 0.22	0.37 0.76 1.3 2.1 5 10 0.015 0.032 0.042	0.05 0.05 0.05 0.05 0.05 0.05 1.1 1.1 1.1 1.1
0.13 0.13 0.13 0.13	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.37 0.76 1.3 2.1 10 10 20 0.015 0.032 0.042	0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
180-44143-2 180-47760-1 180-47872-1 180-46920-1 180-46229-1	180-45035-1 180-47812-1 180-52766-1 180-58794-1 180-58397-1 180-5859-1 180-58658-1 180-58494-1 180-58157-1	180-58619-1 180-68699-1 180-685927-1 180-68639-1 180-65481-1 180-66258-1 180-60416-1 180-58021-1 180-58267-1 180-58267-1	180-48173-2 180-70623-1 180-51965-1 180-60898-1 180-65789-1 180-6535-1 180-57430-2 180-51272-1 180-51272-1	180-50272-1 180-58021-1 180-58021-1 180-64912-1 180-64912-1 180-58494-1 180-58494-1 180-58157-1 180-58157-1 180-68898-1 180-68639-1 180-68639-1
Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead
Dry Cleaning PERC Bottoms	PERC PERC PERC PERC PERC PERC PERC PERC	Cleaning PERC Cleaning PERC	Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms Dry Cleaning PERC Filters Dry Cleaning PERC Bottoms

	City 2017 le 2015 er 2016 sha 2015 le 2017 er 2016 le 2017 er 2017 cque 2016 le 2017 er 2017 cque 2016 hn 2015 le 2016 le 2016 le 2016 le 2017 le 2016 le 2016 le 2016 le 2016 le 2016 le 2016 le 2017 le 2016 le 2017 le 2016 le 2016 le 2017 le 2016 le 2017 le 2016 le 2017 le 2016 le 2016 le 2017 le 2016 le 2017 le 2016 le 2017 le 2016 le 2016 le 2017
Archdale Charlotte Farmington St. Pauls Raleigh Charlotte Farmington Vichita Archdale	Fresno Archdale Chandler Vinton Barre Chester Waukesha Highland Chandler Vinton Barre Boise Albuquerque Tulsa Boise Raleigh Boise Fresno Vinton Chandler Archdale Chester Boise Boise Chandler Archdale Chandler Archdale Chandler Boise Boise Boise Chandler Archdale Chandler Boise Chandler Boise Chandler Boise Chandler Boise Chandler Boise Fresno Highland St. Pauls Archdale Boise Fresno Highland St. Pauls Archdale Barre
0.00 1	0.092 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	
4 / 2 8 8 8 4 4 4 8 8 8 8 8 8 9 9 9 9 9 9 9 9	
180-54966-2 1.4 180-44143-1 1.7 180-51965-1 2.3 180-56181-1 2.3 180-70387-1 2.3 180-58397-1 2.4 180-56884-2 2.5 180-47812-1 2.9	180-65481-1 3.5 180-5549-1 3.7 180-57430-1 4 180-57430-1 4 180-57430-1 4.5 180-66535-1 5.9 180-48053-1 6.4 180-48053-1 6.8 180-64913-2 6.8 180-64913-2 6.8 180-64913-2 6.8 180-64913-2 6.8 180-64913-1 12 180-68699-1 7.4 180-58794-1 9.5 180-68699-1 7.4 180-58794-1 9.5 180-58794-1 0.0002 180-58658-1 13 180-58658-1 13 180-5712-1 0.0002 180-58658-1 0.0002 180-58658-1 0.0002 180-58658-1 0.0002 180-5496-2 0.0002 180-5496-2 0.0002 180-64912-1 0.0002 180-64913-2 0.0012 180-64913-2 0.0012 180-58658-1 0.0013 180-58658-1 0.0013 180-58658-1 0.0013 180-58658-1 0.0013 180-58658-1 0.0013 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003 180-58658-1 0.003
Lead Lead Lead Lead Lead Lead Lead Lead	Lead Lead Lead Lead Lead Lead Lead Lead
Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms Dry Cleaning PERC

2015 2015 2015 2015 2015 2015 2015 2016	2017 2017 2017 2017 2017 2016 2016 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017 2017 2017 2017
Boise Chandler Clackamas Highland Los Angeles Raleigh St Pauls Waukesha Wichita Farmington Albuquerque	Albuquerque Boise Farmington Los Angeles Raleigh Vinton Archdale Charlotte Salt Lake City Chester Boise Fresno Vinton Chandler Archdale Boise Farmington Santa Ana Archdale Chester Roleigh Santa Ana Archdale Boise Farmington Santa Ana Archdale Boise Chandler Clackamas Highland Los Angeles Raleigh St Pauls Waukesha Wichita Albuquerque Boise Chandler Chandler Chandler Chandler Chandler Chandler Santa Ana St. Pauls Yinter	Albuquerque Farmington Los Angeles
64		ř
99	5	2
0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.033 0.033 0.033 0.033 0.033 0.02 0.02	0 0 0 0 5 6 6
		2 2 2 2
7,50 1,00	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mg/L mg/L mg/L
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165	0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.026 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.0	0.25 0.25 0.25
0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033	0.0033 0.0033 0.0033 0.0033 0.009 0.022 0.022 0.022 0.033 0.	0.55
180-42913-1 180-42860-1 180-47860-1 180-46920-1 180-48173-2 180-48173-2 180-48173-2 180-51965-1	180-70623-1 180-68699-1 180-68639-1 180-68639-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6259-1 180-6369-1 180-6369-1 180-6369-1 180-6369-1 180-6389-1 180-6389-1 180-6389-1 180-6389-1	180-5825 (-1 180-70623-1 180-65927-1 180-68639-1
Mercury	ercun ercun	Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone Methyl Ethyl Ketone
Dry Cleaning PERC Bottoms	PERCO PERCO	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms

Raleigh 2017 Vinton 2017 Vinton 2017 Archdale 2017 Barre 2017 Boise 2017 Chandler 2017 Boise 2017 Charlotte 2015 Charlotte 2015 Archdale 2015 Archdale 2017 Roise 2017 Chandler 2017 Archdale 2015 Archdale 2016 Boise 2017 Chandler 2017 Archdale 2016 Roise 2016 Chandler 2017 Los Angeles 2016 Archdale 2016 Boise 2015 Chandler 2017 Chandler 2017 Los Angeles 2015 Raleigh 2015 Raleigh 2015 Santa Ana 2016 Fresno 2016 Charlotte 2016 Boise 2016 Charlotte 2016 Raleigh 2016 Raleigh 2016 Santa Ana 2016 Raleigh 2016 Albuquerque 2016 Raleigh 2016 Albuquerque 2016 Fresno 2016 Albuquerque 2016 Fresno 2016 Albuquerque 2016 Fresno 2016 Albuquerque 2016 Fresno 2016 Fresno 2016 Albuquerque 2017 Boise 2017 Raleigh 2017 Los Angeles 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017 Los Angeles 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017 Raleigh 2017	
S 11 49 1.	
0.5 0.5 0.5 0.5 0.5 0.0 13000 13000 13000 10.0 10.0 10.0 10	
	ı
7,564 7,764 8,774	j :
0.25 0.25 0.25 0.25 1.8 12.7 12.5 12.0 0.025 0.0)
0.55 0.55 0.55 0.55 0.05	
180-70387-1 180-65481-1 180-66258-1 180-60898-1 180-60898-1 180-6899-1 180-64912-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6914-1 180-6913-2 180-6913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-2 180-64913-1 180-6535-1 180-6535-1 180-6869-1 180-5869-1 180-5869-1 180-5869-1 180-5869-1 180-68699-1 180-68699-1	
Methyl Ethyl Ketone Methyl Ethyl Sa 4 Methylphenol, 3 & 4 Methylph	wearly price log of a
Cleaning PERC CL	DIY Oleaning PENG Boudins

																																													53														
	, 2017	2017	2017	2017	201	2012	2017	2016	2010	2015	2015	2013	2015	2016	2016	2016	2017	2017	2017	2017			2000	20102	2015	2015	2015					2015	2015	2015					2010	2010	2010	2010				2010	2010				2017				2017	2017	2017	2016	
	Salt Lake City	Vinton	Archdale	Barre	D CO SOLUTION OF THE COLUMN TWO IN THE COLUMN TW	Archdala	Chester	Chandler	Boise	Fresho	Vintor	VINION	Chandler	Archdale	Boise	Chester	Boise	Chandler	Tampa	Chandler	l oc Andeles	Arahdala	Alcinde	Dalle Dalle	Boise	Chandler	Charlotte	Clackamas	Highland	Los Angeles	Raleigh	St Pauls	Waukesha	Wichita	Farmington	Santa Ana	Albuquorano	Albuquelque	Police	Charlotte	rammgton	resno	Highland	Kaleign	Santa Ana	ot. Pauls	Iulsa	VINTON	Albuquerque	asioo	rarmington aa Aagalaa	Los Angeles Palaiah	Salt Lake City	Vinton	Archdale	Barre	Archdale	Chandler	
																																									4	24																	
																																									č	5																	
														S																																													
	۳	<u></u>		•	- 0	5 5	2 5	2 6	0,0	20.0	20.00	0.0 0.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.25 0.25	6.43	- ,		—	-	_	-	_	_	_	_		-							- ,		. .	, ,	. ,	.	. ,	. .	- -	_ ,	- -	- ,				- ←	- 0	20	
	⊃	b	=	=)	Ξ	> =	o =	o =	> =	o =) :	⊃	*	⊃	⊃	\supset	=	=) =	> =	o :	o :	D	-	⊃	⊃	\supset)	\supset	_) =	=	> =	> =	o :	o :	o :	> :	o :	> :)	> :	⊃ :) :) :) :	> :	> :	o :	o =	> =	> =	o =) <u> </u>) ⊃	D	
	ma/L	ma/L	l/bm	7,00	7,611	mg/L me/l	111g/L	שלישווו	rng/L	mg/L	mg/L	mg/L	- mg/L	mg/L	mg/L	mg/L	mg/L	/om	1 / 0) p &	11g/L	11g/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/l	ma/!) [/b	11g/L	11g/L	∏g/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	111g/L	mg/L	mg/L	mg/L	mg/L	
	10	. IC	י ע	ט ני		V		_	7	מעל	ה ה	52	25	25	25	25	25	25	2,5	3 -	_ u	Ω.	o:	ر ک	2	2	2	2	2	2	5	ı LC	י ער) L(O 14	0 1	ກເ	ΩI	ı Dı	ı, n	ا ب	Ω	rO I	Ω.	Ω.	2	2	Ŋ	ıçı	ا ت	ığı	ע ר	ល្ប	⊛	ם עם	יע	; .c	. 0	
	Ö	0.5	o c	2 0		_ 4	n u	n	2 6	0.025	0.023	0.025	0.025	0.0	0.025	0.025	0.025	0.025	20.0	3 6	- 2	0.123	0.5	o.	o.	o.	O.	Ö	Ö	0.5	Ö	i c	óc	9 0	o c	o c	o (5 6	o (0 0	o (O .	o i	o ·	o ·	o i	o i	o ·	o (0	0 0	0 0	5 0	o c	0.0) C) ~	_	
	_	_	- ~		- 3	<u> </u>	2 5	2 6	2 2	0.00	ი.ი ი ი	0.05	0.05	0.05	0.05	0.05	0.05	900	0.00	3 6	77.0	0.7.0	_	-	_	_	_	_	_	_	_						.	. .	ς .	ς,	-		_	_		-	_	-	ψ,	.	τ- ·	. ,		- 7			- 01	20	
3	180-65481-1	180-66258-1	180-60208-1	100-00030-1	204 10-1	180-50272-1	180-65789-1	180-00030-1	80-5/430-2	80-42907-1	80-50272-1	80-51272-1	80-46420-1	80-54966-2	180-52709-1	80-54769-1	180-68706-1	180-64912-1	100-040-1	100-00914-1	7-0-6-0-6	1-17086-081	180-42712-1	180-48437-1	180-42913-1	180-42860-1	180-44143-2	180-47760-1	180-47872-1	180-46920-1	180-46229-1	180-48173-2	180-48173-1	10000	180-4/612-1	180-51865-1	180-52266-1	180-58794-1	180-52712-1	180-58397-1	180-56884-2	180-58509-1	180-58658-1	180-58494-1	180-58157-1	180-56181-1	180-58619-1	180-58267-1	180-70623-1	180-68699-1	180-65927-1	180-68639-1	180-70387-1	180-65481-1	180-60898-1	180-60416-1	180-65789-1	180-57430-2	
	4 180-6							_ `	4 180-	200	200	180-	180-	180.	180-	180-	180-1	200	2 0	5 6	000	-081	180-	180	180-	180	180-	180-	180-	180-	180-	2 6	2 6	5 6	180	180	180-	180-	180	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	180-	9 5	200	200	20 6	2 6	180	180	
	Methylphenol 3 & 4) o	ე ი ე ი	ა დ ი	გ დ ი დ	გ ი	გ ი	Wetnylpnenol, 3 & 4	ර	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrohenzene	Nitrobonzono	Mittobolizono	MILIODETIZETE	Nitropenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrohenzene	Nitrobenzene	Nitrobonzono	Nitrobonizana	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nifrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	
	Dev Cleaning PERC Rottoms		DIS Cleaning PENC Bottoms		Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dv Cleaning PERC Filters	Do, Cleaning DEBC Filters	Dr. Cleaning Lettor attend	Diy Oleaning FENO Finels	Dry Cleaning PERC Bollorins	Dry Cleaning PERC Bottoms	PEKC	PERC	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	PERC		PERC	Cleaning		DEPC	Diy Cleaning F Live Bottoms		Dry Cleaning PERC Bottonis	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning PERC	PERC	Dry Cleaning PERC Bottoms	PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Cleaning PERC	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms		

	Albuquerque 2016 Archdale 2017 Chester 2017 Chandler 2016 Charlotte 2015 Barre 2015 St. Pauls 2016 Tampa 2017 Chester 2017 Los Angeles 2016
20 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.1	0.13 50 100 0.1 0.1 0.1
	ㅋㅋㅋ분 분ェ분
mg/Kg mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	mg/L mg/Kg mg/Kg mg/L No Units No Units SU SU
10 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.125 0.1	0.99 25 25 50 3.67 3.73 4.37 4.4 5.1
20 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.1	0.99 50 50 100 3.67 3.73 4.37 4.4 5.1
180-66535-1 180-42913-1 180-42913-1 180-42860-1 180-4760-1 180-5712-1 180-5884-2 180-5884-2 180-58157-1 180-58157-1 180-6839-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6258-1 180-6898-1 180-5809-1 180-5809-1 180-5809-1 180-5809-1 180-6899-1 180-6899-1	180-58794-1 180-65789-1 180-65783-1 180-44143-1 180-48437-1 180-56181-1 180-66914-1 180-66535-1
Nitrobenzene Pentachlorophenol	Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol pH pH pH pH pH pH pH
Cleaning PERC CL	Dry Cleaning PERC Bottoms

	2016 2015 2017 2017 2015 2015 2016 2016 2017 2017 2017
To a a s or resconding the second as a scalar as a sc	S S
S A S S S S S S S S S S S S S S S S S S	
8	
000000000000000000000000000000000000000	0.1 0.1 0.1 0.2 0.2 6
	ェ告ェェコココ <u>*</u> ココココココココ
No Units No Units No Units SU	No Units No Units SU No Units SU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
6.83 6.83 6.83 6.83 6.83 6.83 6.83 6.83	7.3 7.4 8 8 8.09 8.09 8.9 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.
6.85 6.85 6.85 6.85 6.85 6.85 6.83 6.83 6.83 6.83 6.83 6.83 6.83 6.83	7.3 8 8 8.9 8.9 0.1 0.1 0.1 0.2 0.2 0.2 0.2
180-58658-1 180-42712-1 180-42913-1 180-65789-1 180-68706-1 180-68706-1 180-5266-1 180-5266-1 180-70387-1 180-68639-1 180-68639-1 180-68639-1 180-68639-1 180-58619-1 180-58619-1 180-58494-1 180-58494-1 180-5884-2 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1 180-58157-1	180-52709-1 180-64913-1 180-64913-1 180-68699-1 180-50272-1 180-50272-1 180-5420-1 180-5420-1 180-54769-1 180-54769-1 180-64912-1 180-64912-1 180-64912-1 180-64912-1
<u> </u>	ph ph ph ph ph ph ph ph phidine Pyridine Pyridine Pyridine Pyridine
Bottoms Bottom	
PERCO PERCO	PERC PERC PERC PERC PERC PERC PERC PERC
Dry Cleaning	Dry Cleaning

2015	2015	2015	2015	2015	2015	2015	2013	2013	2013	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	2010	2016	2017	2017	2017	2017				2017	2017	2017	7017	2016	2015	2016				2017	2015	2015	2015	2016	2017	2017	2017	2016	2016	2016	2016	2015	
Вагге	Boise	Chandler	Charlotte	Clackamas	Highland	Los Angeles	Kaleign	Menkaba	Waukesiia	Farmington	Santa Ana	Albuqueraue	Boise	Charlotte	Farmington	Fresno	Highland	Kaleigh	Santa Ana	Julea Tulea	Vinton	Albuquerque	Boise	Farmington	Los Angeles	Raleigh	Salt Lake City	Vinton	Archdale	Barre	Chester	Archdale	Chandler	Vinton	Chester	Boise	Los Angeles	Chandler	Tampa	Charlotte	Boise	Chandler	Archdale	Archdale	Bolse	Chandler	Highland	Tulsa	Fresno	Vinton	Clackamas	
																49																																				
																3																																				
2	5	S)	Ω.	LΩI	۰ ۵	ın u	n L	Ωц	n w	יי כ	ט יט	, ις	o ro	ഹ	2	2	ഹ	Ω.	ມແ	ט ע	יי כ	ט עכ	, ιΩ	, ro	2	ß	5	S	S)	ഹ !	10	55	100		0.5	0.5	0.1	0.26	0.5	0.1	0.5	0.5	0.5	0.0 C.1	0.0 0.4	0. 6	5.		- 4	· •	*	
J	ם	⊃	⊃	⊃:) :	o :	o :	o :	o =	o =) <u> </u>) ⊃	ı ⊃	J	ם	D)	⊃:	> =	o =	o =) =) ⊃))	\supset	コ	כ	⊃	D)	⊃ :	o :	o -	ے <u>۔</u>)	JBA	D	⊃	7		⊃) :)) :	> =	ס	-	, - .	, –	, ¬	JB	
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	ma/l	mg/L	mg/L ma/l	11g/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg "	mg/L "	mg/L ∞e,/	mg/L	ma/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L							
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0,7	C 4	5.7 5.7	, c	2 12	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.7 7.0	., c	2 6	2.5	5 i S	2.5	2.5	2.5	2.5	2.5	2.5	ഹ :	10	20	0.029	0.037	0.042	0.05	0.13	0.13	0.19	0.25	0.25	0.25	0.25	0.25	0.25	0.20	14.0	0.43	0.43	0.46	
5	5	5	2	S I	Ω I	ın ı	ΩL	o r	oп	ט גר	ט רט	ט עמ	ഹ	2	Ω	2	2	ις o	ωı	n u	ם ע	י ער	ט נכ	വ	. 12	2	Ŋ	Ŋ	2	2	9 9	50	100	0.029	0.037	0.042	0.1	0.26	0.13	0.19	0.5	0.5	0.5	0.5	ن ت ت	C.5	0.70	147	0.43	0.43	0.46	
180-48437-1	180-42913-1	180-42860-1	180-44143-2	180-47760-1	180-47872-1	180-46920-1	180-46229-1	180-48173-2	180-48055-1	180-51965-1	180-51363-1	180-58794-1	180-52712-1	180-58397-1	180-56884-2	180-58509-1	180-58658-1	180-58494-1	180-58157-1	100-00101-1	180 58267 1	180-30207-1	180-68699-1	180-65927-1	180-68639-1	180-70387-1	180-65481-1	180-66258-1	180-60898-1	180-60416-1	180-66535-1	180-65789-1	180-57430-2	180-502/2-1	180-54769-1	180-52709-1	180-58021-1	180-64913-2	180-60914-1	180-44143-1	180-42907-1	180-46420-1	180-54966-2	180-65789-1	180-68/06-1	180-64912-1	180 58658 1	180-58619-1	180-58509-1	180-58267-1	180-47760-1	
Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pvridine	Pyridine	Pyridine	Pyridine	Pyridine	Pvridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Pyridine	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium	Selenium							
Dry Cleaning PERC Bottoms	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning	Cleaning PERC	Dry Cleaning PERC Bottoms	Cleaning	Cleaning PERC	Cleaning PERC	Dr. Cloning PENC Bottoms	Cleaning PERC	Cleaning PERC	Cleaning PERC		PERC	Cleaning	Dry Cleaning PERC Bottoms		Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottonis	Div Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Bottoms	Dry Cleaning PERC Filters	Dry Cleaning PERC Filters	Dry Cleaning PERC Bottoms	Dry Cleaning FENC Bottoms	PERC	Dry Cleaning PERC Bottoms	PERC																				

2015 2017 2015 2015 2015 2016 2016 2016 2016	2017 2017 2017 2017 2015 2015 2015 2015 2015 2015 2015 2015	
Archdale Boise Highland Wichita Chandler Farmington Albuquerque Charlotte Raleigh Santa Ana St. Pauls Albuquerque	Farmington Raleigh Salt Lake City Vinton Archdale Barre Boise Boise Farmington Barre St Pauls Waukesha Los Angeles Santa Ana Chester Raleigh Los Angeles Charlotte Los Angeles	Los Angeles Chandler Archdale Chandler Santa Ana Farmington Albuquerque Santa Ana St. Pauls Boise Barre Farmington Vinton Vinton Clackamas Highland Boise Fresno Vinton Chandler Archdale Boise Fresno Vinton Chandler Archdale Boise
64		
<u>بي</u>		
		0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
~~~~~~	כר ררררררככניככ	כככככככררררררררררררכר כ
mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/Kg mg/Kg mg/Kg	1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6
ÉÉÉÉEEEEEEE	E E E E E E E E E E E E E E E E E E E	
0.49 0.49 0.49 0.55 0.55 0.55 0.55 0.55	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.025 0.062 0.065 0.065 0.088 0.12 0.13 0.13 0.13 0.13 0.21 0.22 0.25 0.25 0.25 0.25 0.25
	- + a - (0 a > a a + a )	
7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	_	0.05 0.062 0.063 0.088 0.03 0.13 0.13 0.13 0.13 0.13 0.13 0.13
180-42712-1 180-68699-1 180-47872-1 180-47812-1 180-51965-1 180-58794-1 180-58157-1 180-58157-1 180-58167-1 180-58111-1	180-65927-1 180-65481-1 180-6628-1 180-60416-1 180-52712-1 180-56884-2 180-48437-1 180-48437-1 180-66533-1 180-66535-1 180-66535-1 180-66535-1 180-66535-1	180-58021-1 180-57430-1 180-65789-1 180-64913-2 180-51965-1 180-58157-1 180-58157-1 180-68699-1 180-5884-2 180-58267-1 180-4877-1 180-42907-1 180-42907-1 180-54466-2
8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		$\frac{\cancel{2}}{\cancel{2}} \frac{\cancel{2}}{\cancel{2}} $
Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium	Selenium	Silver
Bottoms	Bottoms Bottom	Bottoms
PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO PERCO	PERC PERC PERC PERC PERC PERC PERC PERC	PERC Bottoms
Cleaning Cleaning Cleaning Cleaning Cleaning Cleaning Cleaning Cleaning Cleaning Cleaning		Dry Cleaning PERC Bottoms

2016 2016 2017 2017 2017 2017 2017 2017 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	2017 2016 2017 2016 2016 2015 2016
Boise Chester Abuquerque Boise Chandler Archdale Tampa Los Angeles Boise Archdale Fresno Wichita Vinton Charlotte Raleigh St Pauls Tulsa Charlotte Raleigh St Pauls Tulsa Charlotte Charlotte Raleigh St Pauls Tulsa Charlotte Boise Raleigh Archdale Los Angeles Farmington Waukesha Barre Raleigh Charlotte Char	Los Angeles Fresno Salt Lake City Charlotte Boise Boise Raleigh Tulsa
6.7	64
ਲ	<u>بع</u>
0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	20000 20000 20000 20000 20000 20000 20000
ש פרר מ פרר מ שרררככככככ	
	7,6 m
0.25 0.25 0.25 0.25 0.25 0.25 0.27 0.27 0.34 0.34 0.35 0.35 0.35 0.05 0.05 0.05 0.05 0.05	590000 600000 760000 810000 880000 880000 910000
0.5 0.5 0.5 0.5 0.5 0.27 0.34 0.35 0.35 0.34 0.35 0.35 0.045 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057	590000 600000 760000 810000 880000 880000
180-52709-1 180-68706-1 180-68706-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6898-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-6889-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1 180-689-1	180-68639-1 180-58509-1 180-58397-1 180-52712-1 180-58494-1 180-58619-1
Silver Si	Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene
PERC PERC PERC PERC PERC PERC PERC PERC	Dry Cleaning PERC Bottoms

2016 2016 2015 2015 2015 2015 2016 2016 2016 2017 2016 2017 2018 2017 2018 2018 2018 2018 2018 2018 2018 2018	2016 2015 2017
St. Pauls Highland Barre Archdale Santa Ana Albuquerque Wichita Santa Ana Chandler Vinton Archdale Highland Fresno Charlotte Vinton Fresno Chandler Barre Boise Boise Boise Chandler Barre Boise St. Pauls Chandler Chandler Archdale Archdale Raleigh Los Angeles Raleigh Los Angeles Raleigh Archdale Tulsa Waukesha Tampa Santa Ana Barre Highland Farmington	Charlotte Boise Chester
64	
3	
20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 2	0.5 0.5 440
	=
7000770 D WWL	
	mg/L mg/Kg
940000 950000 1000000 11000000 11000000 1200000 1200000 1200000 1200000 1400000 1500000 1500000 1500000 1500000 1500000 1500000 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220 220 220
940000 950000 1000000 11000000 11000000 1200000 1200000 1400000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 15000000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 150000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 150000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 150000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 150	190 220 440
180-56181-1 180-56181-1 180-48437-1 180-48437-1 180-42712-1 180-5266-1 180-5266-1 180-5266-1 180-58157-1 180-58157-1 180-58267-1 180-48437-1 180-58157-1 180-58267-1 180-58267-1 180-58267-1 180-58794-1 180-58794-1 180-58794-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58799-1 180-58699-1 180-58699-1 180-58699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1 180-68699-1	180-58397-1 180-58397-1 180-42913-1 180-66535-1
Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Trichloroethene	Trichloroethene Trichloroethene Trichloroethene
Cleaning PERC CL	Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms Dry Cleaning PERC Bottoms

2015 2015 2015 2017 2017 2017 2015 2015 2015 2015 2015 2015 2016 2016 2016 2016 2016 2016 2016 2016	2017
Wichita Los Angeles Farmington Raleigh Chandler Archdale Albuquerque Salt Lake City Archdale Barre Boise Chandler Chandler Clackamas Highland Los Angeles Raleigh St Pauls Worchita Boise Farmington Fresno Chandler Albuquerque Archdale Boise Chandler Albuquerque Archdale Boise Chandler Chandler Albuquerque Boise Chandler Chandler Chandler Chandler Albuquerque Boise Chandler Santa Ang Santa Ang Vinton Boise Farmington Los Angeles Raleigh Satt Lake City Vinton Archdale Barre Chandler Tampa Los Angeles Chandler Tampa	Chandler
64	
34	
250 250 250 250 0.5 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	1400
m $m$ $m$	⊃
	) <u>_</u>
7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m 7/50m	mg/L
260 1300 1600 1600 1000 1000 1000 1000 10	002
85 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2
260 1300 20000 20000 0.2 0.2 0.2 0.2 0.2 0.2 0	1400
	913-2
180-47812-1 180-58021-1 180-58021-1 180-58021-1 180-70387-1 180-64913-2 180-65789-1 180-42712-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-42913-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-5226-1 180-58658-1 180-58658-1 180-58658-1 180-58659-1 180-58659-1 180-58659-1 180-68699-1 180-68699-1 180-68706-1 180-68699-1 180-68988-1 180-69988-1 180-69998-1 180-69998-1 180-60914-1 180-58021-1	180-64913-2
roethene Chloride	oride
Trichloroethene Trichloride Trichloride Trichloride Trichloride Trichloride Trichloroethene Trichloride Tr	Vinyl chloride
PERC Bottoms	C Botton
ng PERC B ng PERC B	ing PER
Dry Cleaning PERC Bottoms Dry Cleaning PERC Eliters Dry Cleaning PERC Bottoms Dry Cleaning PERC	Dry Cleaning PERC Bottoms
	. ப

1,1-Dichloroethene Average 1,2-Dichloroethane Average 1,4-Dichlorobenzene Average 2,4,5-Trichlorophenol Average 2,4,6-Trichlorophenol Average Arsenic Average Barium Average Barium Average Cadmium Average Chlorobenzene Average Chlorobenzene Average Chlorobenzene Average Chromium Average Chlorobenzene Average Chromium Average Chachlorobenzene Average Hexachlorobenzene Average Hexachlorobutadiene Average Hexachloroethane Average Mercury Average Mercury Average Methyl Ethyl Ketone Average Methylphenol, 3 & 4 Average Methylphenol, 3 & 4 Average Selenium Average Selenium Average Selenium Average	The control of the co
Tetrachloroethene Average	575386.9
Trichloroethene Average	226.7245
Grand Average	52929.92

MATRIX

YEAR	2007	2007	2008	2009	2009	2012	2012	2011	2007	2008	2014	2006	2006	2006	2006	2006	2006	2006	2007	2007	7007	2007	2007	7007	2007		5000	2003	2010	2010	701	2015	2010	2006	2010	2006	2006	2007	2007	2008	2009	2009	2012	2012	2011	2007	2008	2006	2006	
FACILITY	Hebron	Hebron	Clackamas	Santa Ana	Clackamas	Santa Ana	Chandler	Clackamas	Hebron	Chandler	Chandler	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Macon	Hebron	Clackamas	Sacramento	Chandlei	Chandler	Clackamas	Chandler	Chandler	Chandler	Cilalidie	Vinton	Hebron	Hebron	Hebron	Hebron	Clackamas	Santa Ana	Clackamas	Santa Ana	Chandler	Clackamas	Hebron	Chandler	Lohron	Hebron							
COUNT																								(	38																									
th VALUE																								1	25																									
REPORTING LIMIT Uth VALUE COUNT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	υ. υ. ι	ວ. ເ	0.5 r	0.5 7	0.5	C. C	U.5	0,70	5. 5	1 2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.25	0.25 0.5	0.5 0.5	
QUALIFIER RE	⊃	⊃	⊃	⊃	⊃	⊃	¬ ⊃	⊃	⊃	⊃	⊃	<b>)</b>	⊃	⊃	<b>)</b>	<b>-</b>	<b>)</b>	_	⊃	⊃	<b>)</b>	⊃	⊃ :	<b>ɔ</b> :	<b>D</b> :	⊃ :	<b>)</b> :	<b>)</b> :	<b>)</b> :	<b>&gt;</b> :	⊃:	<b>)</b> :	<b>&gt;</b>	<b>&gt;</b> :	D	=	) ⊃	· ⊃	⊃	⊃	⊃	)	⊃	o	⊃	⊃	<b>-</b> - :	) <u>:</u>	ככ	
UNITS	mg/L	ma/L	mg/L	mg/L mg/L																																														
RANKED DATA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.125	0.125	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.375	t 6.0	ာဏ	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.125	0.125	0.25	
RESULT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5 r	0.5	0.73	10.0	4 6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.5	
LAB ID	C7C270257001	C7C270259001	C8H010296001	C9G160214001	C9H150185002	180-11339-1	180-12753-1	180-2214-1	C7C290231001	C8H010302001	180-33851-1	C6F290230001	C6G070307001	C6G070310001	C6G130363001	C6G130367001	C6G140261001	C6H280124001	C7C270250001	C7C270254001	C7C270262001	C7C290233001	C7C290234001	C7C290237001	C7C290242001	C71220125001	C9F060172001	C9H050282001	C0G230575001	C0J130551001	180-2704-1	180-46384-1	180-57429-1	180-64612-1	C6G13U3/5UU1	C01030626001	C6F290236001	C7C270257001	C7C270259001	C8H010296001	C9G160214001	C9H150185002	180-11339-1	180-12753-1	180-2214-1	C7C290231001	C8H010302001	180-33851-1	C6F290230001 C6G070307001	
PARAMETER	1,1-Dichloroethene	1,1-Dichloroethene	1.1-Dichloroethene	1,1-Dichloroethene	1, 1-Dichloroethene	1,1 Dichloroethane	1 2-Dichloroethane	1.2-Dichloroethane	1.2-Dichloroethane	1.2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane 1,2-Dichloroethane																																	
MATRIX	DC Naptha Bottoms	Naptha Bottoms	DC Naptha Bottoms	Naptha	Naptha	DC Naptha Bottoms	Naptha	DC Naptha Bottoms	Naptha	Naptha	DC Naptha Bottoms	DC Naptha Bottoms	DC Naptha Bottoms	Naptha	Naptha	Naptha	DC Naptha Bottoms	Naptha	Naptha	Naptha	Naptha	DC Naptha Bottoms		Naptha	Naptha				Naptha	DC Naptha Bottoms	DC Naptha Bottoms	DC Naptha Bottoms			DC Naptha Bottoms DC Naptha Bottoms															

0000000	. L L 6 6 0 0 0 1 1 2 9 2 9 2 1 1 L L 8 6 6 9 8 4 9 9 9 5 L L L L L L L L L L L L L L L L	9
2006 2006 2006 2006 2007 2007 2007 2007		2016
Hebron Hebron Hebron Macon Hebron Hebron Hebron	Hebron Clackamas Sacramento Chandler Hebron	Chandler
	38	
	52	
, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.55 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.5
22222222	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	)
7,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1		mg/L
0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.125 0.125 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.	0.25
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.55 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.5
C6G070310001 C6G130363001 C6G130367001 C6G140261001 C6H280124001 C7C270254001 C7C270254001 C7C290233001 C7C290233001	C7C290242001 C7C290242001 C7C290242001 C9H050282001 C0G230575001 C0G230575001 C0G230575001 180-2704-1 180-46384-1 180-57429-1 180-57429-1 180-57429-1 180-57429-1 180-57429-1 180-12753-1 180-12753-1 180-12753-1 180-12753-1 180-127025001 C6C30230001 C6C30230001 C6C30230001 C6C30230001 C6C30230001 C6C30230001 C6C30230001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C290233001 C7C27025001 C7C27025001 C7C290233001 C7C27025001	180-57429-1
1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	1,2-Dichloroethane 1,4-Dichlorobenzene	1,4-Dichlorobenzene
Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha	DC Naptha Bottoms	Naptha

2017 2006 2010 2006 2006 2007 2007 2006 2006		2010 2006 2007 2014 2015 2016 2007 2006 2006	
Chandler Hebron Vinton Hebron Hebron Hebron Hebron Hebron	Hebron Hebron Hebron Clackamas Clackamas Chandler Clackamas Chandler Sacramento Chandler Sacramento Chandler	Clackamas Hebron Hebron Chandler Chandler Chandler Chandler Clackamas Hebron Hebron	Hebron
		98	8
		24	47
0.5 0.75 0.5 0.5 0.5 12 12	0.05 0.05 0.05 0.05 0.05 0.05 0.1	0.13 0.13 0.13 0.13 0.13 20 20 20	20 20 20 20 20 20 20 20 20 20 20 20 20 2
22 25		בככ ככככככ	
mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	######################################
0.25 0.375 0.51 0.56 0.66 0.8 1.2 6	0.025 0.025 0.025 0.025 0.025 0.05 0.05	0.05 0.065 0.065 0.065 0.065 0.065 6.6 10	10 10 10 10 10 10 10 38 0.025 0.025 0.025 0.025
0.5 0.75 0.51 0.66 0.8 1.2 12	0.05 0.05 0.05 0.05 0.05 0.05 0.10 0.10	0.13 0.13 0.13 0.13 0.13 0.03 0.04	20 20 20 20 20 20 20 20 20 0.05 0.05 0.0
180-64612-1 CGG130375001 C0I030626001 CGG130367001 CGC290237001 C7C290234001 CFC290234001 CGF290236001 CGF290236001	CGC130363001 CGC130375001 C7C270257001 C7C270259001 CRH010296001 C9H150185002 180-12753-1 180-2214-1 C8H010302001 C9F060172001 C9F060172001 C9CG230575001	CGF290236001 C6F290236001 C7C290231001 180-33851-1 180-67829-1 180-64612-1 C71220125001 C6F290234001	C6G070307001 C6G070310001 C6G140261001 C6G120262001 C7C270250001 C7C270252001 C7C290233001 C7C290233001 C7C290237001 C7C290237001 C7C290242001 180-2704-1 C6G130367001 C6G130365001 C6G130365001 C6G130365001 C7C270255001 C7C270255001 C7C270256001
1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol
DC Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	DC Naptha Bottoms

	Clackamas 2011 Clackamas 2007 Chandler 2008 Sacramento 2009 Chandler 2010 Vinton 2010 Clackamas 2010 Hebron 2007 Chandler 2014 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015 Chandler 2015
24	
0.05 0.05 0.05 0.1 0.1 0.13 0.13 0.13 0.13 0.13 0.13 0	0.05 0.1 0.1 0.1 0.1 0.1 0.1 20
7/6/7/2017/2017/2017/2017/2017/2017/2017/20	######################################
0.025 0.055 0.055 0.055 0.055 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065	0.025 0.05 0.05 0.05 0.05 0.065 0.065 0.065 0.065 0.065
0.05 0.05 0.13 0.13 0.13 0.13 0.05 0.05 0.05 0.05 0.05	0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
180-12753-1 180-2214-1 C71220125001 C8H010302001 C9H060282001 C9H060282001 C0G230575001 C0J130551001 C0J130551001 C6F290236001 C7C290231001 180-64612-1 180-64612-1 180-64612-1 180-64612-1 180-64612-1 C6F290234001 C6G130367001 C6G130367001 C6G130367001 C7C270254001 C7C270254001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001 C7C27025001	180-2214-1 C71220125001 C8H010302001 C9F060172001 C9H050282001 C0G230575001 C0J30626001 COJ30626001 COJ30626001 COJ30626001 COS230575001 CF29023001 180-46384-1 180-67429-1 180-64612-1 C6F290230001
2,4,6-Trichlorophenol	2,4-Dinitrotoluene
Naptha Bottoms	DC Naptha Bottoms

2006 2006 2006 2006 2006 2007 2007	2007 2007 2007 2007 2007 2006 2007 2012 2012 2011 2006 2007	2009 2010 2010 2010 2010 2007 2014 2015 2016 2006	2006 2006 2006 2006 2007 2007 2007 2007
Hebron 20 Hebron 20 Hebron 20 Hebron 20 Macon 20 Hebron 20 Hebron 20	as a	as rrr	Hebron 2 Chandler 2 Santa Ana 2 Clackamas 2
36			98
24			54
200000000000000000000000000000000000000	20 20 20 0.05 0.05 0.05 0.05 0.05 0.05	0.1 0.05 0.05 1 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 20 20 20 20 20 20 20 20 20 20 0.05
2222233		2222 22222	
mg/L mg/L mg/L mg/L mg/L	1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5	1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
000000000000000000000000000000000000000	10 10 10 10 0.025 0.025 0.025 0.025 0.025 0.05	0.05 0.05 0.05 0.05 0.097 0.5 0.5 10	10 10 10 10 10 10 10 0.025
200000000000000000000000000000000000000	20 20 20 20 20 0.05 0.05 0.05 0.05 0.05	0.1 0.1 0.056 0.097 1 1 20 20	20 20 20 20 20 20 20 20 20 20 20 20 20 2
C6F290234001 C6G070307001 C6G070310001 C6G130367001 C6G140261001 C6H280124001 C7C270254001	C7C290233001 C7C290233001 C7C290234001 C7C290237001 180-2704-1 C6G130363001 C7C270257001 C7C270257001 C9H150185002 180-12753-1 180-2214-1 C6F290236001 C7C290231001 C7C290231001	C9F060172001 C9H050282001 C0G230575001 C0I030626001 C0J130551001 C7C270259001 C6G130375001 180-46384-1 180-67429-1 180-64612-1 C6F290230001	C6G070307001 C6G070310001 C6G130367001 C6G140261001 C6C4280124001 C7C270250001 C7C27025001 C7C290233001 C7C290234001 C7C290237001 C7C290242001 180-2704-1 C9G160214001 C9G160214001
2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2-Methylphenol	2-Methylphenol	2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Methylphenol 3-Meth
	DC Naptha Bottoms	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha

7.9		Hebron 2006 Hebron 2007			<b></b>			S				Hebron 2006									Hebron		Hebron 2007	'n	Chandler 2008	0	Chandler 2009			Clackarias 2010		Charder 2014				-	Chandler 2014							Hebron 2007						Clackamas 2008	
																						c7																													
	0.1		0.1	0.1	0.25	0.25	0.25	6.0	<del>, -</del> .	Ψ.	ν-	<del>.</del>	τ-	~	<del></del>	<del>-</del>	<b>.</b>	<u>.                                    </u>	τ- ·	<b>.</b>	<b>-</b> •		<b>, 1</b>		<b>.</b> .	· ·	, ,	<b>-</b> ~	- •	- •	4			- 4	- <del>-</del>	- ←	50	0.2	0.2	- i	2	2	2	2	2	20	20	20	20	10	
	n	<b>&gt;</b> =	) ⊃	D	⊃	⊃:	<b>)</b> :	<b>)</b> :	<b>)</b>	⊃ :	<b>)</b>	⊃	⊃	⊃	⊃	$\supset$	$\supset$	<b>)</b>	<b>)</b>	<b>)</b> :	<b>ɔ</b> :	<b>&gt;</b> :	<b>)</b> :	<b>)</b>	<b>)</b> :	<b>&gt;</b> :	<b>)</b> :	<b>)</b>	o :	Э:	<b>)</b> :	o :	o =	<b>&gt;</b> =	o -	o –:	) ¬	$\supset$	⊃	7	⊃	D	⊃	⊃	⊃	JB	ر د	→ .	¬:	D	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L mg/l	g/L	mg/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	0.05	0.05	0.05	0.05	0.125	0.125	0.125	0.25	0.5	0.5	0.5	9.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0 0.12	υ. υ. υ	C C	0.0	0.04	0.098	0.1	0.1	0.21	_	_	_	_	<del></del>	_	_	1.8	2.5	ည	
	0.1	0.0	0.1	0.1	0.25	0.25	0.25	0.5	_	_	_	_	-	_	_	_	-	<b>~</b>	τ-	<del>-</del>	τ-		← ·	τ.	<del>.</del> .	<del>.</del> .	ζ	<del></del> .	<b>.</b>	, .	<b>.</b>	<del>-</del> -	- ,		- 5	0.041	0.00	0.2	0.2	0.21	2	7	2	2	2	_	_	<u>~</u> &:	2.5	10	
	C6G130363001	C6G130375001	C7C270259001	C7C270262002	180-11339-1	180-12753-1	180-2214-1	C8H010296001	C6F290230001	C6F290234001	C6F290236001	C6G070307001	C6G070310001	C6G130367001	C6G140261001	C6H280124001	C7C270250001	C7C270254001	C7C290231001	C7C290233001	C7C290234001	C7C290237001	C7C290242001	C71220125001	C8H010302001	C9F060172001	C9H050282001	C0G230575001	C01030626001	C0J130551001	180-2704-1	180-33851-1	180-46384-1	180-5/429-1	100-04012-1	180-12/33-1	180-33851-1	C9G160214001	C9H150185002	180-2214-1	C6G130363001	C6G130375001	C7C270257001	C7C270259001	C7C270262002	180-2704-1	180-46384-1	180-57429-1	180-64612-1	C8H010296001	
	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Barium	Baring	Barium	Barium	Barium	Barium	Barium	Barium	Barinm	Barinm	Barium	Barium	Barinm	Barium	Barium	
	DC Naptha Bottoms	DC Naptha Bottoms	DC Naptha Bottoms	Naptha	DC Naptha Bottoms	Naptha	Naptha	Naptha			DC Naptha Bottoms	DC Naptha Bottoms			Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	DC Naptha Bottoms	Napula	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	DC Naptha Bottoms	DC Naptha Bottoms	DC Naptha Bottoms	Naptha		DC Naptha Bottoms								

2006 2006 2006 2006 2006 2006 2006	2007 2007 2007 2007 2007 2009 2009 2009
Hebron Hebron Hebron Hebron Hebron Hebron	Hebron Hebron Hebron Hebron Hebron Hebron Clackamas Chandler Vinton Clackamas Chandler Vinton Clackamas Hebron
	88
	55
70 70 70 70 70 70 70 70	0.22 0.22 0.25 0.25 0.25 0.25 0.25 0.25
222222	
1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	
000000000	0.1 10 10 10 10 10 10 10 10 10 10 10 10 10
200000000000000000000000000000000000000	0.25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
C6F290230001 C6F290234001 C6F290236001 C6G070307001 C6G130367001 C6G140261001 C6H280124001	C7C270250001 C7C290231001 C7C290233001 C7C290233001 C7C290233001 C7C290237001 C7C290237001 C7C290237001 C9H050282001 C9H050282001 C9H050282001 C0J130551001 C7C270257001 C7C270257001 C9H150185002 180-1339-1 180-1339-1 180-1339-1 180-1339-1 C6G130362001 C7C27025001 C6G130363001 C6G130363001 C6G130363001 C6G130363001 C7C270254001 C7C270254001 C7C290233001 C7C290233001 C7C290233001 C7C270252001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290237001 C7C290237001 C7C290237001
Barium Barium Barium Barium Barium Barium Barium	Barium
DC Naptha Bottoms	DC Naptha Bottoms

Clackamas 2010 Chandler 2011 Chandler 2015 Chandler 2016 Chandler 2017 Hebron 2006 Hebron 2006 Chandler 2012	Clackamas 2011	
0.5 0.5 0.5 0.5 0.75 12 12	0.25 0.05 0.05 0.05 0.05 0.05 0.05 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mg/L U W Wg/L U	n agyr n	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
0.25 m; 0.375 m; 6 m; 6 m; 0.0036 m; 0		
551001 0.5 704-1 0.5 3384-1 0.5 429-1 0.5 1612-1 0.5 1375001 0.75 234001 12 236001 12		
Benzene C0J130551001 Benzene 180-2704-1 Benzene 180-46384-1 Benzene 180-57429-1 Benzene C6G130375001 Benzene C6F290234001 C6G430375001 Benzene C6F290236001 C6G430375001	Cadmium CAC270262002 Cadmium CAC2702620001 Cadmium CAC30230001 Cadmium CAC30230001 Cadmium CAC30230001 Cadmium CAC302330001 Cadmium CAC302330001 Cadmium CAC30233001 CACAMIUM CACA90233001 CACAMIUM CACA90233001 CACAMIUM CACA90233001 CACAMIUM CACA90233001 CACAMIUM CACA9023001 CACAMIUM CACA9023001 CACAMIUM CACAMIUM CACABOTORION CACAMIUM CACAMIUM CACABOTORION CACAMIUM CACABOTORION CACAMIUM CACAMIUM CACABOTORION CACAMIUM CACABOTORION CACAMIUM CACABOTORION CACAMIUM CACABOTORION CACAMIUM CACABOTORION C	loride Iloride Iloride Iloride
	Bottoms	Naptha Bottoms

2012 2011 2007 2008 2014	2006 2006 2006 2006 2007 2007 2007 2007	2007 2007 2009 2009 2010 2010 2011 2015 2016 2006 2006	2007 2008 2009 2009 2012 2012 2011 2007 2006 2006 2006 2006 2006 2007
Chandler Clackamas Hebron Chandler Chandler	Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron	Hebron Clackamas Sacramento Chandler Vinton Clackamas Chandler Chandler Chandler Chandler Chandler Hebron Hebron	Hebron Clackamas Santa Ana Clackamas Santa Ana Chandler Clackamas Hebron
		80	
		25	
0.2 0.25 0.25 0.25		0.55 0.55 0.55 0.55 0.55 0.75 12	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.5 0.5 0.5 0.5 0.5 0.5
2222:			
mg/L mg/L mg/L	7,6 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1
0.1 0.1 0.125 0.125 0.125	0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.1 0.1 0.1 0.1 0.125 0.125 0.25 0.25 0.25 0.25 0.25 0.25 0.25
0.2 0.2 0.25 0.25 0.25		0.5 0.5 0.5 0.5 0.5 0.5 0.5 12 12	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.5 0.5 0.5 0.5 0.5
180-12753-1 180-2214-1 C7C290231001 C8H010302001 180-33851-1	C6F290230001 C6G070307001 C6G070310001 C6G130363001 C6G140261001 C6G140261001 C7C270250001 C7C270254001 C7C270262001 C7C290233001	C7C290242001 C7C290242001 C9F060172001 C9H050282001 C0G230575001 C0J130551001 180-2704-1 180-27429-1 180-57429-1 C6G130375001 C6F290234001	C7C270257001 C7C270259001 C8H010296001 C9G160214001 C9H150185002 180-11339-1 180-12753-1 180-2214-1 C7C290231001 C8H010302001 180-33851-1 C6F290230001 C6G70307001 C6G130367001 C6G130367001 C6G140261001 C6G140261001 C6G140261001 C7C270250001
	Carbon Tetrachloride	Carbon Tetrachloride	Chlorobenzene
Naptha Bottoms Naptha Bottoms Naptha Bottoms Naptha Bottoms Naptha Bottoms	DC Naptha Bottoms Ca	Naptha Bottoms	

2007 2007 2007 2007 2007 2009 2009 2010 2010	2016 2016 2017 2006 2007 2009 2009 2009 2009 2006 2009 2009 2009	2006 2006 2006 2006 2007 2007 2007 2007	
Hebron Hebron Hebron Hebron Clackamas Sacramento Chandler Clackamas Chandler Chandler	Chandler Chandler Hebron Hebron Hebron Hebron Clackamas Santa Ana Clackamas Santa Ana Clackamas Hebron Hebron Hebron Hebron Hebron Chandler Chandler Chandler	Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Clackamas Sacramento Chandler Chandler Chandler Chandler Chandler Chandler	
89		38	
55		52	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
22222222	בכככככככככ כככככ:		
mg/L mg/L mg/L mg/L mg/L mg/L	mag/L mag/L mag/L mag/L mag/L mag/L mag/L mag/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	
	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	
0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.375 0.375 0.375 0.1 0.1 0.1 0.25 0.375 0.5 0.5		
	10		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
C7C270262001 C7C290233001 C7C290234001 C7C290242001 C7C290242001 C7I220125001 C9F060172001 C9H050282001 C0J130551001	180-46384-1 180-57429-1 180-57429-1 180-57429-1 CGG130375001 CGF290236001 C7C270257001 C7C270259001 C9G160214001 C9G160214001 C9G160214001 C9G160214001 C9G130363001 CGG130363001 CGG130363001 CGG130363001 CGG130363001 CGC290231001	C6G070307001 C6G330367001 C6G130367001 C6G140261001 C6G140261001 C7C27020201 C7C290233001 C7C290234001 C7C290234001 C7C290234001 C7C290237001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001 C7C290242001	
C7C27 C7C29 C7C29 C7C29 C7C29 C7I22 C9F06 C9F06 C9H05 C0C33	180-4 180-6 180-6 180-6 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7 180-7	C6607 C66013 C6614 C6614 C6612 C7C27 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C28 C7C3 C7C3 C7C3 C7C3 C7C3 C7C3 C7C3 C7C	
zene zene zene zene zene zene zene zene	Izene		
Chlorobenzene	Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chloroform Chlo	Chloroform	
		oms successions su	
Naptha Bottoms			

	Hebron 2007 Hebron 2006 Santa Ana 2012 Santa Ana 2009 Clackamas 2009 Hebron 2007 Chandler 2014 Hebron 2006 Hebron 2006 Chandler 2011	0	Hebron 2007 Hebron 2006 Clackamas 2010 Hebron 2006 Chandler 2006 Hebron 2006 Chandler 2017 Hebron 2006 Clackamas 2007 Vinton 2010 Hebron 2007 Hebron 2007 Clackamas 2009 Chandler 2016	Chandler 2017 Chandler 2009
		52		
2 2 50 50 0.25 0.25 0.05	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
ם בריכב כ	ם ככככ יי כ	Δ.		
mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	m mg/L m mg/L m mg/L m mg/L m mg/L m mg/L	mg/L mg/L mg/L mg/L mg/L Degrees F Degrees F Degrees F Degrees F	Degrees F Degrees F
1 4.4 25 25 0.014 0.025	0.025 0.065 0.084 0.14 0.17 0.25 0.25 1.1 1.1	6.5 7.7 7.7 8.8 8.2 8.6 6.5 7.7 7.7 8.8 8.6 8.6 8.6	12.4 12.6 14.5 16.5 16.5 20.1 20.1 20.1 18.9 17.3 16.5 16.5	162 155
2 4.4 50 50 0.014 0.019 0.05	0.05 0.065 0.084 0.17 0.17 0.5 0.5 1.1	5.0 7.7.7 7.6 7.7.7 8.8.2 1.0 8.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	12.4 12.6 14.5 16.5 16.5 16.5 22.1 22.1 22.1 22.0 >200 >200 >200 189 173 165	162 155
180-64612-1 C9H050282001 C6F290234001 C6F290236001 180-12753-1 180-2214-1 C6G130375001	C7C270259001 C6G130363001 180-11339-1 C9G160214001 C9H150185002 C7C290231001 C8H010296001 C8H010302001 180-33851-1 C6F290234001 C6F290234001 C6F290234001	180-46384-1 C7C290242001 C9F060172001 C7C270254001 180-57429-1 C7C290237001 C7C290233001 C6H280124001 C0G230575001 C0G230575001 C0G230575001 C7C270262002	C7C270250001 C6G140261001 C0J130551001 C6G070310001 C7I220125001 C9H050282001 C6G130367001 C6F290230001 180-64612-1 C6F290230001 C7I220125001 C7I220125001 C7C270259001 C7C270257001 C6H280124001 C9H150185001	180-64612-1 C9H050282001
Chloroform Chloroform Chloroform Chromium Chromium Chromium Chromium	Chromium	Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium	Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Flash Point Flash Point Flash Point Flash Point Flash Point	Flash Point Flash Point
DC Naptha Bottoms		Naptha	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha	DC Naptha Bottoms DC Naptha Bottoms

2007 2010 2010 2007 2009 2006 2011 2011 2012 2012	2006 2007 2006 2007 2007 2007 2007 2006	2008 2007 2007 2006 2006	2007 2006 2006 2007 2007 2008 2009	2007 2007 2009 2009 2010 2010 2014 2017 2017 2006
Hebron Chandler Chandler Hebron Hebron Chandler Clackamas Chandler Clackamas Santa Ana Santa Ana Chandler	Hebron Hebron Hebron Hebron Glackamas Hebron Hebron Hebron	Chandler Hebron Hebron Hebron	Hebron Hebron Hebron Hebron Clackamas Clackamas	Clackamas Clackamas Chandler Sacramento Chandler Vinton Clackamas Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Hebron Hebron
5	<del>%</del>			98
	72			24
		0.025	0.025 0.05 0.05 0.05 0.05 0.05	0.05 0.07 0.13 0.13 0.13 0.13
		Þ		
Degrees F	Degrees F	Degrees F Degrees F Degrees F Degrees F mg/L	mg/L mg/L mg/L mg/L	1997 1997 1997 1997 1997 1997 1997 1997
150 150 148 145 147 141 141 141 141	40 138 138 138 138 129 129	123 110 93 70 0.0125	0.0125 0.025 0.025 0.025 0.025 0.025	0.025 0.025 0.05 0.05 0.05 0.05 0.065 0.065 0.065 10
152 150 148 148 145 147 147 141 141	041 138 138 138 138 129 129 129	123 110 93 70 0.025	0.025 0.05 0.05 0.05 0.05 0.05	0.05 0.01 0.13 0.13 0.13 20 20 20 20 20
C7C270262001 180-33851-1 C0G230575001 C7C290237001 C9F060172001 C6G130363001 180-2214-1 180-2214-1 180-2704-1 C8H010296001 C9G160214001 180-11339-1	C6G140261001 C7C270250001 C6G070310001 C6G130375001 C7C290231001 C7C270254001 C7C290234001 C6F290234001	C8H010302001 C8H010302001 C7C290233001 C6G130367001 C6F290236001	C7C290231001 C6G130363001 C6G130375001 C7C270257001 C7C270259001 C9H150185002	180-12753-1 180-2214-1 C71220125001 C8H010302001 C9F060172001 C9F060172001 C0G230575001 C0I030626001 C0J30551001 180-46384-1 180-64612-1 180-64612-1 C6F290234001 C6F290234001
Flash Point	Flash Point	Flash Point Flash Point Flash Point Flash Point Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene	Hexachlorobenzene
	DC Naptha Bottoms	Naptina Bottoms Naptha Bottoms Naptha Bottoms Naptha Bottoms Naptha Bottoms	Naptha Bottoms	UC Naptha Bottoms DC Naptha Bottoms

2006 2006 2006 2006 2007 2007 2007 2007			2006 2006 2006 2007 2007 2007 2007 2007
Hebron Hebron Macon Hebron Hebron Hebron Hebron Hebron	Hebron Chandler Hebron Hebron Hebron Clackamas Clackamas Chandler Clackamas Hebron Hebron	Chandler Sacramento Chandler Chandler Vinton Clackamas Chandler Chandler Chandler Chandler Chandler Hebron Hebron	Hebron
	*	Se	
*		24	
20 20 20 20 20 20 20 20 20	20 0.05 0.05 0.05 0.05 0.05 0.05	0.13 0.13 0.13 0.13 0.13	20 20 20 20 20 20 20 0.05 0.05 0.05
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 0.025 0.025 0.025 0.025 0.025 0.05	0.05 0.05 0.05 0.05 0.05 0.065 0.065 0.065 10	10 10 10 10 10 10 0.025 0.025 0.025
50 50 50 50 50 50 50 50 50 50 50 50 50 5	20 20 0.05 0.05 0.05 0.05 0.05 0.05	0.1 0.1 0.13 0.13 20 20 20	20 20 20 20 20 20 20 20 20 20 0.05 0.05
C6G070310001 C6G130367001 C6G140261001 C6H280124001 C7C270250001 C7C270254001 C7C290233001 C7C290233001 C7C290233001	C7C290242001 180-2704-1 C6G130363001 C6G130375001 C7C270257001 C7C270259001 C8H010296001 C9H150185002 180-12753-1 180-2214-1 C6F290236001	C71220125001 C8H010302001 C9F060172001 C9H050282001 C0G230575001 C0J30551001 180-33851-1 180-46384-1 180-57429-1 180-64612-1 C6F290234001 C6F290234001	C6G070310001 C6G130367001 C6G140261001 C6G1280124001 C7C270250001 C7C270254001 C7C290233001 C7C290237001 C7C290237001 C7C290242001 180-2704-1 C6G130363001 C7C270259001 C7C270259001
Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene	Hexachlorobenzene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobutadiene	Hexachlorobutadiene	Hexachlorobutadiene Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane Hexachloroethane
DC Naptha Bottoms	Naptha Bottoms	DC Naptha Bottoms PC Naptha BO	DC Naptha Bottoms

2009	2012	2011	2007	2000	5000	0000	2010	0.00	20.10	2014	2015	2016	2017	2006	2006	2007	2006	2006	2006	2006	2006	2006	2006	2007	2007	2007	2007	2007	2007	2007	2007	2006	2007	2007	2012	2000	2011	1000	2000	2007	2008	2008	2009	2006	2009	2014	2006	2011	2007	2016	2007	2007	
Slackamas	Chandler	Clackamas	Clackamas	olialiulei Liailulei	Sacramento	Chandler	Vinton	VIIIOII	Clackamas	Chandler	Chandler	Chandler	Chandler	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Macon	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron		Chandler	Hobron		Chandler	Cildilaici	Dalla Alla Lishton	neproli	Clackallias	Tebion	Hebron	Chandler	Clackamas	Santa Ana	Hebron	Clackamas	Chandler	Hebron	Chandler	Hebron	Chandler	Hebron	Hebron	
0		0 (	0 1	(	ñ			(	ی										36																			,			,	,	,	,	0								
																			24																																		
0.05	0.05	0.05	0.0	- ·	. ·	5 6	- c	. o	1.0	0.13	0.13	0.13	0.13	0.05	_	_	20	50	20	20	20	20	.50	20	20	20	000	2 6	2 6	0 6	0 6	0 0	0.00	0.03	0.20	0.43	0.03	0.20		٥. د. د	0.3	0.5	0.05	0.3	0.05	<del>-</del>	0.3	0.3	0.3	<b>—</b>	0.03	0.3	
																														20																							
$\supset$	<b>⊃</b> :	<b>□</b> :	⊃ =	o :	) <u> </u>	o :	) <u>-</u>	o :	) : 	$\supset$	⊃	⊃	n			$\supset$	$\supset$	$\supset$	)	D	$\supset$	$\supset$	$\supset$	$\supset$			=	> =	o =	o =	o =	> =	o =	o -		7	-	¬ =	o :	o :	⊃ :	<b></b>				$\supset$							
mg/L	mg/L	mg/L	mg/L	IIIg/L	mg/L	IIIg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	ma/L	mg/L	ma/L	ma/L	ma/l	ma/L	1,64	11g/n	mg/L	mg/L	mg/∟	IIIg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L								
0.025	0.025	0.025	0.05	0.00	0.05	0.00	0.00	0.00	0.05	0.065	0.065	0.065	0.065	0.24	0.5	0.5	10	10	10	10	10	9	10	10	£ 2	2 2	2 5	2 5	5 6	5 6	5 6	0.0	0.015	0.015	0.02	0.034	0.047	1.0 1.1.0	0.15	0.15	0.15	0.25	0.25	0.34	0.43	0.5	0.59	0.63	0.95	1.2	1.3	<del>د</del> .	
5	5	ťΣ		_ ,		_ ,			-	က	3	ဗ	3	4																¬ (	~ ·	- S	უ ე	χ ç	77.	4 1	, <del>,</del> ,	Ξ (	<b>.</b> .	m (	က	5	52	7.	13		69	ಜ	35	2	3	3	
0.05	0.05	0.05							0.1	0.13	0.1	0.1	0.1	0.24		_	20					20 20				- 0				7 20					0.02			_			1 0.3				2 0.43			0.63	_	1.2	-	1	
C9H150185002	180-12753-1	180-2214-1	C71220125001	CSHUIUSUZUU	C9F0601 /2001	Camoouzazuui	CUGZ305/5001	CUIU3U6Z6UU1	C0J130551001	180-33851-1	180-46384-1	180-57429-1	180-64612-1	C6G130375001	C6F290236001	C7C290231007	C6F290230001	C6F290234001	C6G070307001	C6G070310001	C6G130367001	C6G140261001	C6H280124001	C7C270250001	C7C27D254001	C7C270262002	C7C200232001	C7C200234001	7020023400	C/C29023/001 07026023/001	C/C290242001	180-2704-1	C6G130375001	C7C270259001	180-12/53-1	180-11339-1	C6G130363001	180-2214-1	C6F290236001	C7C290231001	C8H010302001	C8H010296001	C9G160214001	C6F290234001	C9H150185002	180-33851-1	C6G070307001	180-2704-1	C7C270254001	180-57429-1	C7C270257001	C7C290242001	
	апе									ane	ane	ane	ane																				) ر	0		,	<u>J</u>	•		0	U	O	O	U	O		O		O		U	U	
Hexachloroethane	<b>Hexachloroethane</b>	Hexachloroethane	Hexachloroethane	Hexachloroethane	- - - - - - - - - -	Texachioroethane	Hexachloroethane	-lexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	- Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	rexachioroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Hexacilloroethane	rexactiloroeti Fergobloroeti	Hexachioroethane	Hexachioroethane	Hexachloroethane	Hexachloroethane	Hexachloroethane	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead							
Naptha Bottoms F	_			Bottoms	Bottoms				Bottoms	Naptha Bottoms F	Naptha Bottoms F	Bottoms	Bottoms	3ottoms	Bottoms		Bottoms	_		Softoms		Bottoms	Bottoms	Bottoms		Bottoms		Bottoms	Sottoms	Bottoms	Bottoms	Bottoms						Naptha Bottoms		Naptha Bottoms													
DC N	DC N								_		DC N	DC N	DCN																	2 : S								Z :				200		_	DCN	DCN	DC N	DCN	DC N		DC N	DC	

2017 2009 2015 2007 2007 2007 2007 2007 2007 2007 200	
Chandler Chandler Chandler Hebron	Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Clackamas Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler
88	88
52	52
0.3 0.03 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033
2222222222	
	122222
######################################	
1.3 1.5 1.6 1.6 1.8 1.9 1.9 2.3 3.4 4.3 7.2 7.2 7.2 7.2 7.2 7.2 7.9 10.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165
1.3 1.5 1.5 1.6 1.6 1.9 2.3 3.4 3.5 4.3 7.2 7.2 7.9 7.9 7.9 7.0 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0003 0.0003	0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.033
512-1 282001 384-1 262002 172001 124001 124001 233001 235001 237001 255001 256001 256001 256001 257001 255001 255001 255001 255001 255001 255001 255001	234001 337001 310001 367001 261001 124001 255001 233001 234001 234001 237001 172001 172001 575001 575001
180-64612-1 C9H050282001 180-46384-1 C7C270262002 C9F060172001 C6H280124001 C7C290233001 C7C290233001 C6G330575001 C6G330575001 C6C330575001 C7C290237001 C6C340261001 C7C290237001 C7C290237001 C6C140261001 C7C20125001 C9C1030626001 C9C10296001 C9C10296001 C9C1030626001 C9C1030626001 C9C1030626001 C9C103062001 C6C130363001 C7C270250001 C7C270250001	C65290234001 C66070330001 C66070310001 C66130367001 C66140261001 C66140261001 C7C27025001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001 C7C29023001
Lead Lead Lead Lead Lead Lead Lead Lead	Mercury
	, , , , , , , , , , , , , , , , , , ,
Naptha Bottoms	Naptha Bottoms
DC Naptha B DC Naptha	

4507778667778499999977789	2 77 8
	2012 2011 2006 2007 1S 2007
Chandler Chandler Chandler Chandler Hebron Clackamas Santa Ana Clackamas Santa Ana Clackamas Hebron Clackamas Chandler Hebron	Chandler Clackamas Hebron Hebron Clackamas Chandler
88 87	
25	
0.033 0.033 0.033 0.033 0.023 0.22 0.25 0.25 0.55 0.55 0.55 0.55 0.55	0.05 0.05 0.1 0.1
	22222
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	mg/L mg/L mg/L mg/L
0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.0165 0.017 0.017 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.025 0.025 0.05 0.05 0.05 0.05
0.033 0.033 0.033 0.033 0.025 0.025 0.025 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035	0.05 0.05 0.1 0.1 0.1
180-33851-1 180-46384-1 180-57429-1 180-64612-1 C7C270257001 C7C270259001 C9G160214001 C9G160214001 C9G160214001 C9G160214001 C9G160214001 C9G160214001 C7C290231001 C8H010302001 180-27429-1 180-27429-1 180-57429-1 180-6733001 C6G330367001 C6G33367001 C6C33367001 C7C290233001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290237001 C6G130355001 C7C290237001 C6G303575001 C6C3033575001 C6C3033575001 C6C3033575001 C7C270250001 C6C290237001 C6C30236575001 C7C270250001 C7C270250001 C7C270250001 C7C270250001 C7C270250001 C7C270250001	180-12753-1 180-2214-1 C6F290236001 C7C290231001 C7I220125001
Mercury Mercury Mercury Mercury Methyl Ethyl Ketone	Methylphenol, 3 & 4
DC Naptha Bottoms	Naptha Naptha Naptha Naptha Naptha Naptha

2009 2009 2010 2010 2010 2016 2014 2015 2016 2006 2006		2008 2012 2012 2009 2009 2000 2010 2010 2010
Sacramento Chandler Chandler Vinton Clackamas Hebron Chandler Chandler Chandler Chandler Chandler Hebron	Hebron	Clackamas Clackamas Chandler Clackamas Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Chandler Hebron Hebron Hebron
	98	38
	54	24
0.1 0.0 0.05 0.05 1 1 20 20	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.05 0.05 0.05 0.1 0.1 1 0.05 20 20 20 20 20 20
2222 22222	22222 222	
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50	1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6
0.05 0.05 0.05 0.05 0.23 0.23 0.5 0.5	10 10 10 10 10 25 27 27 33 33 33 30 0.025 0.025	0.025 0.025 0.025 0.025 0.05 0.05 0.05 0
0.1 0.2 0.23 0.23 1 1 1 20	20 20 20 20 20 25 27 27 33 33 33 0.05	0.05 0.05 0.05 0.1 0.1 0.1 0.1 0.1 0.2 20 20 20 20 20 20 20 20 20 20 20 20 20
C9F060172001 C9H050282001 C0G230575001 C0I030626001 C0J130551001 C6G130363001 C6G130375001 180-33851-1 180-46384-1 180-57429-1 180-64612-1 C6F290230001	C6G070307001 C6G070310001 C6G140261001 C6H280124001 C7C290233001 180-2704-1 C7C270250001 C7C270250001 C7C290237001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001 C7C290234001	C8H010296001 C9H150185002 180-12753-1 180-2214-1 C6F290236001 C7C290231001 C7C290231001 C7C290231001 C7C290231001 C9F060172001 C9F060172001 C9F060172001 C0J130551001 180-46384-1 180-64612-1 C6G130375001 C6G70307001 C6G70307001 C6G70307001
Methylphenol, 3 & 4	Methylphenol, 3 & 4 Methyl	Nitrobenzene
DC Naptha Bottoms	Naptha	

2006 2007	2007	2007 2007	2007	2007	2006	2007	2006	2007	2014	2015	2016	2008	2009	2012	2011	2008	2009	2009	2010	2010	2006	2002	2007	2007	2011	2010	2006	2006	2006	2006	2006	2006	2007	2007	2007	2007	2007	2007	2007	2006	2006	2008	2002	2007	; ) )
Macon Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Chandler	Chandler	Chandler	Clackamas	Clackamas	Chandler	Clackamas	Chandler	Sacramento	Chandler	Chandler	Vinton	Hebron	Hebron	Hebron	Clackamas	Chandler	Clackamas	Hebron	Hebron	Hebron	Hebron	Hebron	Macon	Hebron	Hebron	Hebron	Changler	Hebron	Hebron							
																												36																	
																												24																	
20	20	5 50 20	20	5 20	20	30 50	0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.5	ကဖ	ကျ	n	n ←	100	0.5	009	009	009	009	009	000	009	009	009	009	009	900	009						
ココ	<b>D</b> =	<b>)</b>	⊃	<b>&gt;</b> =	o		∩	<b>)</b>	⊃:	<b>)</b>	<b>&gt;</b> =	) =	) ⊃	D	⊃	D	⊃	□	<b>)</b>	⊃ :	<b>)</b> :	<b>)</b>	o =	D	$\supset$		D	D	<b>)</b>	<b>)</b> :	<b>)</b> :	<b>&gt;</b> =	) ⊃	n	⊃	⊃	⊃	<b>&gt;</b> :	<b>-</b>						
mg/L mg/L	mg/L	mg/L mg/L	mg/L	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L	mg/L	mg/L mg/L	mg/L	mg/L	mg/L	mg/L	mg/L "	mg/L	mg/L mg/l	mg/L	No Units	No Units	No Units	No Units	No Units							
10	9 9	5 6	10	9 9	73	160	0.065	0.065	0.065	0.065	0.065 0.065	0.005 0.125	0.125	0.125	0.125	0.25	0.25	0.25	0.25	0.25	7.5	رن دن ت	υ.	c. 7 7	50	62	300	300	300	300	300	300	300	300	300	300	300	300	300	2.4	3.9	4. 0	4 r 0 4	- 2	į
20 20	20	5 50 20	20	20	73						0.13				0.25	0.5	0.5	0.5	0.5	0.5	က	ကျ	m d	ی در م	100	62	009	009	009	009	600	900	009	009	009	009	009	600	009	2.4	3.9	4. <del>4</del>	ф. Ф. <del>г.</del>	. c.	
124001 1250001	254001	262002 233001	1237001	7C290242001	734001						180-57429-1	Σ				C8H010302001	172001	C9H050282001	C0G230575001	C01030626001	363001	375001	C7C2/025/001	C/CZ/UZ59001	180-2704-1	C0J130551001	C6F290230001	C6F290234001	C6G070307001	C6G070310001	C6G130367001	C6G140261001	C7C270250001	C7C270254001	C7C270262002	C7C290233001	C7C290234001	C7C290237001	C7C290242001	C6F290234001	C6F290236001	C9H050282001	C6G130367001	C7C290231001	10000
C6H280124001 C7C270250001	C7C270254001	C/C2/0262002 C7C290233001	C7C290237001	C7C290242001	180-2704-1 C6F290234001	C7C290234001	I C6F290236001	O														_																		C6F290	C6F290	C9H05(	C6G13(	7773	0.00
Nitrobenzene Nitrobenzene	Nitrobenzene	Nitrobenzene Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Nitrobenzene	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol Pentachlorophenol	Pentachlorophenol	Pentachiorophenol	Pentachlorophenol Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol	Pentachiorophenol Bentachlorophenol	Pentachlorophenol	퓝	F.	玉=	H I	5 7	<u>-</u>																
		Bottoms N Bottoms N			Bottoms N							Bottoms Pen					Bottoms Pen	Bottoms Pen							Bottoms Pen							Bottoms Pen				Bottoms Pen	Bottoms Pen			Bottoms	Bottoms	Bottoms	Bottoms	Bottoms	SILOID
DC Naptha Bottoms DC Naptha Bottoms	Naptha	DC Naptha Bor DC Naptha Bor	Naptha		Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	DC Naptha Bo	Naptha	Naptha			DC Naptha Bo	DC Naptha Bo	Naptha	Naptha	Naptha	Naptha	Naptha		Naptila	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	DC Naptha Bo	Naptha	Naptha		Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	Naptha	DC Naptina Bottoms	

m (0 = 4 > 0 0	0 10			
2008 2006 2011 2014 2007 2010 2010			2009 2016 2007 2007 2007 2006 2007 2007 2007 200	
Chandler Hebron Clackamas Chandler Hebron Vinton	Chandler Hebron Chandler Hebron Macon Hebron Clackamas Santa Ana Chandler	Hebron Hebron Hebron Hebron Clackamas Sacramento Chandler Hebron	Chandler Clackamas Hebron Clackamas Clackamas Chandler Sacramento Chandler Vinton Clackamas Chandler	
		38		
		55		
0.7	0.1 0.1 0.1	0.1	. 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
	ェ ェ		I	
No Units	SO SU SU No Units No Units No Units No Units No Units	No Units	No Units SU No Units No Units SU SU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	
5.5.5 5.5.5 6.6 6.6	6.07 6.07 6.1 6.1 6.3 6.3	4.0 6.5 7 7 7 7 7 7	7.1 7.2 7.4 7.7 7.8 9.1 0.025 0.025 0.05 0.05 0.05 0.05 0.05 0.	
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	6.07 6.07 6.1 6.1 6.3 6.3	4.0 6.8 7 7 7 7	7.7 7.7 7.7 7.8 7.8 7.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	
C8H010302001 C6G140261001 180-2214-1 180-33851-1 C7C290237001 C0I030626001	180-2704 180-46384-1 180-12762001 180-12753-1 C6G130363001 C6H280124001 C7C290234001 C7C290234001 180-11339-1 180-2704-1	CFC270250001 C6F290230001 C6G130375001 C6G070310001 C7C290242001 C7I220125001 C9F060172001 C0G230575001	C9G160214001 180-57429-1 C8H010296001 C7C270257001 180-64612-1 C7C270259001 C6G13033001 C6G33035001 C7C270259001 C7C270259001 C7C270259001 C7C290231001 C7C290231001 C7C290231001 C7C290231001 C7C290231001 C9H150185002 180-12753-1 180-2214-1 C71220125001 C9H010302001 C9H010302001 C9H050282001 C9H050282001 C0G230575001 C0G230575001	
ᠴᠴᠴᠴᡓ	. 표 표 표 표 표 표 표 표 표 표		pH	
DC Naptha Bottoms	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha	Naptha Naptha Naptha Naptha Naptha Naptha Naptha	DC Naptha Bottoms	

2017 2006 2006 2006 2006 2007 2007 2007 200			
Chandler Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron Hebron	Hebron Macon Chandler Santa Ana Hebron Hebron Santa Ana Clackamas Clackamas Chandler	Clackamas Hebron	Chandler Clackamas Chandler Chandler Chandler Vinton Chandler Clackamas Hebron Macon Chandler
98		88	
42		52	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 20 20 100 0.05 0.05 0.05 0.05 0.05	0.25 0.05 0.05 0.05 0.05 0.05 0.05 0.05	30.00
555555555555555555555555555555555555555	בכ ככככרכ כנ		ר ככרככ
mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L		mg/L mg/L mg/L mg/L mg/L mg/L mg/L
2.0000000000000000000000000000000000000	10 10 21 21 50 0.025 0.025 0.025 0.025 0.025 0.025	0.125 0.125 0.125 0.23 0.25 0.25 0.25 0.25 0.25 0.25	0.25 0.25 0.33 0.55 0.55 0.57 0.64 0.66
	20 21 21 100 0.022 0.05 0.05 0.05 0.05	0.23 0.23 0.55 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.3 1 1 0.55 0.55 0.64 0.66
180-64612-1 C6F290234001 C6F290234001 C6G070310001 C6G130367001 C6G140261001 C7C270254001 C7C270254001 C7C270254001 C7C290233001 C7C290234001	C. C. C. 29023 7001 C. C. 29023 7001 C. C. 290242001 180-2704-1 180-11339-1 C. G. G. 1303 75001 C. C. C. 27025 7001 C. C. C. 27025 7001 C. C. C. 27025 7001 C. C. C. 27025 7001 C. C. C. 27025 9001 C. C. C. 27025 9001 C. C. C. 27025 9001	180-12/33-1 180-2214-1 180-270262002 180-2704-1 C6F290234001 C6G370307001 C6G140261001 C7C270254001 C7C270254001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001	C9H050282001 C9H050282001 180-33851-1 180-57429-1 180-64612-1 C01030626001 180-46384-1 C71220125001 C6G070310001 C6H280124001
180. C6F2. C6G0. C6G1. C6G1. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2. C7C2.	C7C2 C6H2 C6H2 C6G4 C6G4 C6G4 C7C2 C9G4 C9H4 C8HC	252 252 265 265 265 265 272 272 272 272 272 272 272 272 272 27	COUNTY 180
	in man man me e e e e e e e e e e e e e e e e e e		
Pyridine Pyridine Pyridine Pyridine Pyridine Pyridine Pyridine Pyridine Pyridine	Pyridine Pyridine Pyridine Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium	Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium	Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium Selenium
Bottoms	Bottoms	Bottoms	Bottoms
		Naptha Bottoms	

2006	2006	2006	2007	2007	2000	2009	2011	2012	2012	2011	2017	2006	2006	2006	2006	2006	2006	2006	2006	2007	2007	2007	2007	2007	2007	2007	2007	2008	2008	2009	2009	2010	2010	2010	2014	2015	2016	2007	2007	2009	2012	2012	2011	2015	2009	2008	2007	2014		
Hebron	Hebron	Hebron	Hebron	Hebron	Canta Ana	Clackamas	Chandler	Santa Ana	Chandler	Clackamas	Chandler	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Macon	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Hebron	Clackamas	Clackamas	Chandler	Sacramento	Chandler	Chandler	Vinton	Clackamas	Chandler	Chandler	Chandler	Hebron	Hebron	Santa Ana	Santa Ana	Chandler	Clackamas	Chandler	Clackamas	Clackamas	Hebron	Chandler	CI BI IZI	
																								38				25																						
																								25																										
5.0	0.05	0.05	0.05	0.05	0.03	0.03	 	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	9.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.25	0.25		
	$\supset$	n	<b>⊃</b> :	<b>)</b> :	o =	) <u> </u>	o –	> =	) ⊃	) ⊃	٦	⊃	⊃	D	⊃	⊃	⊃	⊃	)	)	⊃	⊃	D	D	⊃	כ	⊃	)	)	n	⊃	כ	⊃	⊃	⊃	٦ ·	_	⊃	)	⊃	⊃	⊃	D	⊃						
mg/L	mg/L mg/L	mg/L	mg/L	mg/L	mg/L mg/l	mg/L	mg/L	1,0m	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
0.74	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.000	0.125	0.125	0.13	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.45	0.48	0.1	0.1	0.1	0.1	0.1	0.1	0.25	0.34	0.79	4.6	23.0	6.7	
0.74	0.05	0.05	0.05	0.05	0.00	0.00	0.03	0.00	0.25	0.25	0.13	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.45	0.48	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.34	0.79	4.	2.3	6.7	
C6G130367001	C6F230230001 C6G130363001	C6G130375001	C7C270257001	C7C270259001	C/CZ/026200Z	C9G160214001	180-2704-1	180-11339-1	180-12753-1	180-2214-1	180-64612-1	C6F290230001	C6F290234001	C6F290236001	C6G070307001	C6G070310001	C6G130367001	C6G140261001	C6H280124001	C7C270250001	C7C270254001	C7C290231001	C7C290233001	C7C290234001	C7C290237001	C7C290242001	C71220125001	C8H010296001	C8H010302001	C9F060172001	C9H050282001	C0G230575001	C01030626001	C0J130551001	180-33851-1	180-46384-1	180-57429-1	C7C270257001	C7C270259001	C9G160214001	180-11339-1.	180-12753-1	180-2214-1	180-46384-1	C9H150185002	C8H010296001	C7C290231001	180-33851-1	180-64612-1	
Selenium	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Tetrachloroethene	l etrachloroethene											
	Naptha Bottoms		Naptha Bottoms			Naptna Bottoms	Naptha Bottoms	Naptilia Bottoms	Nantha Bottoms	Nantha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha	Naptha		Naptha Bottoms	Naptha Bottoms	Naptha Bottoms		Naptha Bottoms		Naptha	Naptha Bottoms	Naptha Bottoms		_		Naptha	Naptha	_		Naptha	Naptha Bottoms	Naptha Bottoms		Naptha	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	Naptha Bottoms	
	3 2			200	ב ב ב	3 2	3 2					20	DC	20		20	20	20	20	8	20	20	20		20	20	20	20	20	20	2	20	20	20	20	2	2	20		2	DC	20	2	20	20	20	20	2 2	DC DC	

2016 2006 2006 2007 2011 2009 2007 2007 2007 2007	2008 2006 2006 2006 2006 2006 2007 2007 2007	2006 2007 2007 2007 2007 2009 2009 2010 2010
Chandler Hebron Clackamas Clackamas Clackamas Chandler Sacramento Hebron Hebron Hebron Hebron	Chandler Chandler Hebron Clackamas Santa Ana Clackamas Santa Ana Clackamas Hebron	Hebron Hebron Hebron Hebron Clackamas Sacramento Chandler Chandler Hebron Clackamas Clackamas
	88 80 80	37
e:	52	24
0.5 0.75 0.5 0.5 0.5 2.5 2.5	25 12 12 12 12 10 10 10 10 10 10 10 10 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	2222222222	000000000
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	27- 27- 27- 27- 27- 27- 27- 27-	######################################
3 10 12 17 25 31 45 66 66 270 290	310 340 340 390 600 670 1100 1300 14000 1100000 1100000 1100000 10.1 0.1 0.1	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.375 1.1
3 10 17 17 17 25 31 45 66 66 110 270	310 340 340 390 600 670 710 1100 14000 150000 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.00 0.00 0.00 0.00 0.05 1.1
180-57429-1 C6G130375001 C6G130363001 C71220125001 C0J130551001 180-2704-1 C9F060172001 C7C290233001 C7C290233001 C7C290233001 C7C290233001 C7C290233001		C6G130363001 C7C270254001 C7C270262001 C7C290233001 C7C290234001 C7I220125001 C9F060172001 C9H050282001 180-64612-1 C6G130375001
Tetrachloroethene	Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Tetrachloroethene Trichloroethene	Trichloroethene
DC Naptha Bottoms	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Na	

2006 2006 2011 2007 2006 2006	2010 2016 2010 2007 2008 2008 2006	2006 2006 2006 2007 2007 2007	2007 2007 2007 2007 2009 2009 2009	2010 2012 2012 2012 2011 2015 2006 2006 2006
Hebron Hebron Chandler Hebron Macon Hebron	Vinton Chandler Chandler Hebron Chandler Chandler Hebron	Hebron Hebron Hebron Hebron Hebron Hebron	Hebron Hebron Hebron Hebron Clackamas Clackamas Sacramento Santa Ana Chandler Clackamas	Vinton Santa Ana Chandler Clackamas Clackamas Chandler Chandler Chandler Chandler Hebron Hebron Hebron
			o c	8
				8
0.5 0.5 0.5 12 12	6.0 6.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	; o o o o o o o o o	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.2 0.2 0.2 0.2 0.2 0.5 0.5 5
ככ	2222			00000000000
mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L
2.2.2.2.4.4.2.5.4.5.5.5.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	15 26 74 820 0.05 0.05 0.05	2000000000	2000000000000	0.1 0.1 0.1 0.1 0.1 0.25 0.375 2.5
2.2.2.4.4.2.5.4.4.5.5.4.2.5.4.4.5.5.4.4.5.5.4.4.5.5.4.4.5.5.4.4.5.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.	26 74 74 820 0.1 0.1		000000000000000000000000000000000000000	002 002 002 002 003 003 003 003
C6G130367001 C6G140261001 180-2704-1 C7C290237001 C6H280124001 C6F290234001 C6F290236001	C01030626001 180-57429-1 C0G230575001 C7C290242001 C7C290231001 C8H010302001 180-33851-1 C6F290230001	C6G130367001 C6G130367001 C6G140261001 C6H280124001 C7C270250001 C7C270257001 C7C270257001	C7C270262001 C7C290233001 C7C290234001 C7C290242001 C7C290242001 C7I220125001 C8H010296001 C9F060172001 C9G160214001 C9H050282001 C9H150185002	C0G230575001 C0I030626001 180-11339-1 180-12753-1 C0J130551001 180-2704-1 180-46384-1 180-57429-1 180-57429-1 C6G130363001 C6G130375001 C6F290234001
Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	Trichloroethene Trichloroethene Trichloroethene Trichloroethene Vinyl Chloride Vinyl Chloride Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride
DC Naptha Bottoms	Naptha Naptha Naptha Naptha Naptha Naptha Naptha	Naptha Naptha Naptha Naptha Naptha Naptha Naptha	Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha Naptha	DC Naptha Bottoms

PARAMETER	LAB ID	RESULT UNITS QUALIFIER REPORTING LIMIT FACILITY YEAR	MIT FACILITY YEAR
1,1-Dichloroethene Average		0.94	
1,4-Dichlorobenzene Average		2.455	
2,4,5-Trichlorophenol Average		22.3	
2-Methylphenol Average		0.0765	
Barium Average		0.8395	
Cadmium Average		0.0315	
Chlorobenzene Average		6.4	
Chloroform Average		4.4	
Chromium Average		8.1191	
Flash Point Average		141.031	
Hexachloroethane Average		0.24	
Lead Average		9.77745	
Methyl Ethyl Ketone Average		10.48	
Methylphenol, 3 & 4 Average		24.2733	
Nitrobenzene Average		78.3333	
Pentachlorophenol Average		43	\$1
pH Average		6.13816	
Pyridine Average		21	
Selenium Average		0.46423	
Silver Average		0.282	
Tetrachloroethene Average		84737.8	
Trichloroethene Average		86,4491	
Grand Average		10928.8	

MATRIX

Appendix C
Subpart BB/CC Information



## Procedure for Compliance with RCRA Subparts BB and CC

#### **OPERATIONS**

Division/Department: Operations

Contact: Jane Spetalnick

Jane.spetalnick@safety-kleen.com

Procedure: O220-005

Revision: 3

Revision Date: October 10, 2017

Supercedes: April 25, 2012 Issue Date: November 3, 2004

Page: 1 of 12 Approved: Bill Ross

## Purpose:

The purpose of this Branch Operating Guideline is to provide general guidelines for complying with the requirements for controlling emissions from equipment leaks (Subpart BB) and controlling emissions from containers, tanks, surface impoundments and miscellaneous units (Subpart CC).

### Scope:

This procedure applies to all U.S. Safety-Kleen Branches that are permitted Treatment, Storage, and Disposal Facilities (TSDFs).

## Responsibilities:

Branch General Manager (BGM)

Branch General Managers are responsible for following these procedures. BGMs also assist the EHS Manager in all compliance issues as they

relate to the branch.

Environment Health and Safety Managers (EHS Manager) EHS Managers are responsible for understanding all federal, state, and local regulatory issues pertaining to maintaining branch compliance with the control of emissions. EHS Managers conduct routine inspections and

training to ensure branch compliance with Subparts BB and CC

compliance.

#### **Definitions:**

Average Volatile Organic Concentration or average VOC

Means the mass-weighted average volatile organic concentration of a hazardous waste as determined in accordance with the requirements of 40 CFR 265.1084.

**Closed-vent system** 

A system that is not open to the atmosphere and that is composed of piping, connections, and necessary, flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to a control device.

Closure device

Means a cap, hatch, lid, plug, seal, valve, or other type of fittings that blocks an opening in a cover such that when the device is secured in the closed position it prevents or reduces air pollutant emissions to the atmosphere (Example: a hinged access lid or hatch)

Connector

Any flanged, screwed, welded, or other joined fittings used to connect two pipelines or a pipeline and a piece of equipment. For the purposes of reporting and recordkeeping, connector means flanged fittings that are not covered by insulation or other materials that prevent location of the fittinas.

**Equipment** 

Each valve, pump, compressor, pressure relief device, sampling connection system, opened-ended valve or line, or flange, or any control devices or systems required by Subpart BB.

In heavy liquid service

Means that the piece of equipment is not in gas/vapor service or in light liquid service (Example: mineral spirits is a heavy liquid)

In light liquid service

Means that the piece of equipment containers or contacts a waste stream where the vapor pressure of one or more of the components in the stream is greater than 0.3 kilopascals (kPa) at 20°C, the total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20°C is equal to or greater than 20 percent by weight and the fluid is a liquid at operating conditions (Example: paint thinner is a light liquid)

Level 1 Container

≤ 122 gallons, Storage of any hazardous; no waste stabilization or >122 gallons, "Not in light material service" (See Subpart BB section of this BOG for Light Material Service definition); no waste stabilization

Level 2 Container >122 gallons, "In light material service," no waste stabilization

Level 3 Container

>26.4 gallons, Stabilization of hazardous waste

Malfunction

Means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or unusual manner. Note: Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Maximum Organic Vapor Pressure

Means the sum of the individual organic constituent partial pressure exerted by the material contained in a tank, at the maximum vapor pressure-causing conditions (i.e., temperature, agitation, pH effects of combining wastes, etc.) reasonably expected to occur in the tank.

Open-ended valve or line

Any valve, except pressure relief valves, have one side of the valve seat in contact with the process fluid and one side open to the atmosphere, either directly or through open piping.

# Point of waste origination

- (1) When the facility owner or operator is the generator of the hazardous waste, point of waste origination means the point where a solid waste is produced by a system, process, or waste management unit is determined to be a hazardous waste as defined by 40 CFR Part 261.
- (2) When the facility owner and operator is not the generator of the hazardous waste, point of the waste origination means the point where the owner or operator accepts delivery or takes possession of the hazardous waste.

#### **Related Documents:**

Attachment A

Example daily Subpart BB Inspection Form

Attachment B

Example Leak Detection and Repair Form

Attachment C

Example Branch Daily Inspection Form (tanks and containers)

Attachment D

Example Subpart CC Annual Tank Inspection (including difficult Subpart BB tagged fittings at tops of tanks).

#### Overview:

Procedures for compliance with both Subparts BB and CC are covered in the BOG.

Standards have been promulgated limiting organic emissions resulting from equipment leaks at new and existing hazardous waste treatment, storage and disposal facilities (TSDFs) requiring RCRA permit under RCRA Subtitle C.

These emission standards, set forth under 40 CFR Parts 264 and 265, Subpart BB, apply to any "leaks" from valves, pumps, compressors, pressure relief devices, sampling connection systems, flanges or other pipe connectors, control devices, and open-ended valves or lines that may result in organic emissions. Controls for these sources are required at TSDFs where the equipment contains or comes in contact with hazardous waste streams with 10 percent or greater organics content (by weight).

Subpart CC regulations require owners and operators of tanks, container, surface impoundments, and miscellaneous units to limit VOC emissions from these units by providing covers and emission control devices.

**Tanks Subject to Subpart CC:** Any tank that is used to store or treat hazardous waste with a VOC 100 ppm or greater.

**Containers Subject to Subpart CC:** Containers with design volume of greater than 0.1 m³ (about 26 gallons) that are used to store or treat hazardous waste with a VOC 100 ppm or greater.

Generators storing hazardous waste in containers and in tanks for up to 90 days are also subject to the Subpart CC regulations. Satellite accumulation drums of less than 55 gallons are not subject to Subpart CC.

#### **Procedures:**

#### Subpart BB

 Each piece of equipment in waste service, such as pumps, valves, flanges (includes flanges located at either end of a valve), compressors, other connectors (any threaded fitting), open-ended lines, and flanged manway covers must be marked (tagged) such that they are easily distinguished from other pieces of equipment (numbered).

**Note:** Zip ties (nylock ties) are <u>not</u> acceptable for attaching Subpart BB ID tags to equipment. Subpart BB ID tags **must** be attached to equipment using a stainless steel wire which can be ordered from MSC (**MSC #93536928**). All Subpart BB equipment ID tags currently attached to equipment by something other than a stainless steel wire need to be replaced immediately.

- Each open-ended valve or line must be equipped with a cap, blind flange, plug, or a second valve which seals the open end at all times except when hazardous waste flows through the open-ended valve or line. Note: Any cover to an open-ended valve must be marked (tagged/number).
- Drawings to show location of each piece of equipment and corresponding tag/number must be current and maintained in the EHS file. Note: Notify EHS Manager if tags or equipment are added or removed.
- List numbers for valves (threaded fittings) that are designated as unsafe-to monitor or difficult-to-monitor. Provide an explanation of why these threaded fittings are unsafe or difficult to monitor on a daily basis and when they are inspected. (Example: Tagged equipment on top of vertical tank(s) is inspected annually in conjunction with the Subpart CC inspection. See Subpart CC section of this BOG)
- Each tagged piece of equipment must be visually inspected during daily inspections. If a leak is noticed, it must be noted on the daily inspection log for that day.
- If pieces of equipment are found to be leaking:
  - Note the leaking equipment on the daily inspection form (circle "N" and note the tag number at the bottom of the inspection sheet)
  - Tag the leaking equipment with a weatherproof tag.
  - Complete the Leak Detection and Repair form with the required information.
     Record the status of repairs on this form.
  - The first attempt to repair the leak must be done in 5 calendar days from the time the leak was noted on the daily inspection sheet.

- The leak must be repaired with 15 calendar days of detecting a leak or the
  equipment must be taken out of service. Note: Contact BGM and EHS Manager
  if it appears that repairs cannot be made within the 15 days.
- If repairs are not made within 15 calendar days or taken out of service, the EHS Manager must submit a semi-annual report to the Regional Administrator describing the situation.
- o Remove the weatherproof tag when repairs are finished.
- All activities to repair a leak must be recorded on a Leak Detection and Repair form.
- The actual vapor pressure must be maintained in the operating record (EHS 999 file cabinet) to show that the equipment is in heavy liquid service. **Note:** EHS Manager will make sure this information is current, in the EHS 999 file, and available for inspection.

## Subpart CC

• The facility operating record must identify all hazardous waste storage tanks for Subpart CC compliance (including 90 day tanks), drum storage areas and transfer operations, such as drum emptying and truck stations, as applicable units.

**Note:** This information can be found in Part B Permit Application, but must be in EHS 999 file and available for inspection

 Hazardous waste storage tanks must be classified as Level 1 or Level 2 tanks based on the above referenced definitions.

**Note:** Most branch storage tanks are classified as Level 1 tanks. Therefore, the following procedures address Level 1 tanks.

- Vapor pressure of the waste in the tank(s) must be available for inspection (see EHS 999 files).
- Tanks must be equipped with covers, and all cover openings are kept closed except when sampling, adding or removing waste materials.

**Note:** Due to SK policy which requires the use of 55-gallon drums for accumulation of site generated wastes, all satellite accumulation containers of return and fill/dock wastes are subject to this requirement.

**Note:** In states that consider the drum washer(s) as Level 1 tanks, the drum washer(s) lid must be closed when drum washing operations are being conducted and when not in use if materials are present in the unit (exception being when wastes are being added or removed from the equipment), and be equipped with proper seals on the lid to control emissions.

 Annual inspections must be conducted on all tanks' covers and all tank openings, such as manhole covers, pressure relief devices, conservation vents and long bolted manways. **Note:** If visible holes or gaps are noted in the inspection: Repair documentation must indicate the first attempt at repair was performed within 5 days and repairs must be completed within 45 days of discovery unless repair cannot be conducted without emptying the tank or taking it out of service and no alternative tank capacity is available. In such instances, a tank must be repaired the next time it stops operation and the repair must be completed before placing the tank back into service (Note: see EHS Manager for additional guidance if repair cannot be completed within 45 days of detecting a leak. Some permits or other regulatory requirements may not allow the continued operation of a tank beyond 45 days after discovering a defect. Severe leaks will require immediate action and may require the tank to be removed from service immediately, and repair certified by an independent Professional Engineer).

 An inspection of the top of the tank(s) must be conducted annually. The findings must be documented.

Branches with vertical waste tank(s): Due to the difficult location of the Subpart BB tags for the threaded fittings at the top of these tank(s), daily inspection of these fittings is not possible. Therefore, in conjunction with the annual Subpart CC inspection, these tagged fittings will be inspected. The documentation of the Subpart CC annual tank inspection will also reference the tag numbers for the fittings located at the top of the tank and whether leaks were noted or not.

#### ATTACHEMENT A - Example Subpart BB Inspection Form

Page 3 of 3 INSPECTION LOG SHEET FOR: Daily Inspection of TANK EQUIPMENT INSPECTOR'S NAME/TITLE _ INSPECTOR'S SIGNATURE MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY DATE: SM / 0 / YO 31ME Pump, Flange, or Valve Number MON. TUES. WED. THURS. FAL. 3 A Ν N A A 4 N A N N 5 N A N ٨ Ŋ N Α N 6 Ν N ٨ N N A Ν Α M A N N А N B Ν N N Д N M Д 9 М A N. A N jĄ, N 10 NNN ٨ N 22 A N 1 9 A N A A N 12 N N N A N 13 N Д Ν A N 14 N Д Ν N Á N A 15 N A A N ٨ N Α A N 16 N Д N A А N 17 Ν Α Ν A A Ä N N 18 N N A A 2222 A N 19 N N A A A N 20 N N A А N N A 21 Ν A N A A NN 22 N Д N A A N 29 N A A Ν Λ A N 24 N AAAAAAA N A N 222222 25 N A N N A 26 N N N Α A N 27 Ν A N N A A A 28 N À Ν A 29 N N N Д 30 А A NN A Ν 31 ٨ A N N Α A N AA 32 A N A 22 A N 33 Α A N N A 34 Μ Α N A N A ĬÝ 35 A A N А N ٨ 30 A N A Ν A 37 Ä N A A 38 N A N A N N 30 N A N N 40 N N N

For all leaks and potential leaks, the Leak Detection and Repair Record must be completed.

If 'N', enter pump or valve # _

Draw a line arrough valve and pump I.D, numbers which do not apply.

1.0924.1.103/76/79

and circle appropriate problem: potential leak active leak, sticking, wear, does not operate

[&]quot;Add short descriptions of unit being inspected (e.g. gate valve, dumpster flange, dumpster pump, etc.)

[&]quot;A = Acceptable N - Not Acceptable

## ATTACHMENT B - Example Subpart BB Leak Detection and Repair Form

### LEAK DETECTION AND REPAIR RECORD

EQUIPMENT DESCRIPTI	r I.D. #		BRANCH#			
	POTENTIAL OR ACTUAL		DATE		INSPEC	The state of the s
	CTED?			_	7	
	THE POTENTIAL OR					146
INSTRUMEN FIVE DAYS	T MONITORING WITHIN			<b>-</b> s		
(1.)	RESULTS					
	ATTEMPT METHOD		•		-	
(2.)	RESULTS					
	ATTEMPT			_	-	
(3-)	RESULTS					
	UCCESSFUL REPAIR completed w/in 15 day	5)		-		
(4.)	METHOD					
FOLLOWUP	MONTHLY MONITORING FO	R VALVES				
(5.)	RESULTS					
(6.)	RESULTS			-		
MONITORIN	G SUMMARY		166	:00		
CALIBRATION BACKGROUN	T #/OPERATOR ON D READING T EQUIPMENT		(3) (4)	(5)	(6)	8

ATTACH ANY DOCUMENTATION PREPARED BY THE CONSULTANT

## ATTACHMENT C - Example Subpart CC Daily Inspection Form Page 1 of 3

#### INSPECTION LOG SHEET FOR: Daily Inspection of STORAGE TANK SYSTEM

				SNATUR						_
MONDAY	TUESDAY	W	EDNESD	AY	Tr.	HURSDA	\Y	-	FRIDAY	
	M	ON.	TU	ES.	W	ED.	ТН	JRS.	F	RI,
TAANSFER PUMPS AND I Tump Seals:	HOSES A^	N	Α	N	A	N	A	N	٨	N
If 'N', circle appropriat	te problem: Teaks, other, _									
Actors:	A	N	Λ	N	Α	N	Α	N	A	ľ
If 'N', circle apprepriat	te problem: overheating, o	then								
ittings:	A	N	A	N	A	N	Α	N	Α	N
If 'N', circle approprial	le problem: leaks, other									
/sives:	A	N	Α	N	A.	N	А	N	Α	N
If 'N', circle appropriat	be problem: leaks, slicking	other								
lose Connections and Fittir	nga: A	N	A	N	Α	N	A	N	A	N
II 'N', circle appropriat	te problem: cracked, loost	, løaks, o	ihe:							
lose Body:	A	N	Α	N	А	N	Α	N	A	N
NETURN AND FILL STATION Vet Dumpster:	ON A	N	A	N	A	N	А	N	А	_
	e problem: sediment buik		, ,						5,	
secondary Contaminent	A	N	Α	N	A	N	A	N	A.	N
If 'N', circle approprial other:	re problem: sediment/liqui	d, leaks, d	<b>S</b> eteriorati	on, distori	ion, exce	ss debris	it			
U U Laboration 0	A	N	Α	N	А	N	Α	N	A	h
uading/Unloading Area:										

IF AN ITEM IS NOT APPLICABLE, ENTER 'N/A' AFTER IT AND DRAW A UNE THROUGH THE 'ACCEPTABLE/NOT ACCEPTABLE' ROW]

#### ATTACHMENT C - Example Subpart CC Daily Inspection Form Page 2 of 3

Paily inspection of **STORAGE TANK SYSTEM**(A separate log must be completed for each tankfarm which contains a hazardous waste storage tank.)

		INS		R'S SIGN						-	
MONDAY	TUESDAY		WE	DNESDA	Y	THI	JASDA	Y		FRIDAY	
- 106-E 107 (D) VI -	- 4 1				-					//	
TIME	-		1/5		_	-		-	-		
STORAGE TANKS: TANKS MUST NEVER HE MOR	PE THAN BOX FULLY	МФИ.		TUES	<b>.</b>	WED.		THUR	<b>ş</b> .	FF	ti.
*Tan	e fina	/		1		1		1		/	
Tuni	k (in/gal)	1		1		1		1		/	
fank Exterior:		A**	N	А	N	A	N	A	N	Α	N
if 'N', sirole appropria other:	ite problem: rusty or l	ons esop	roring, l	ack of gro	unding,	wet spots.	díacolo	ration, leak	s, distor	ton,	
tigh Level Alarms		Α	N	A	N	Α	N	Α	N	A	N
II "N", cycle approada other:	ite problem maltungt	Koning "Pa	ower Or	i" flyht, ma	r functio	ning stren?	sirobel	ght,			
Volume Gauges:		А	N	A	N	А	N	Α	N	Α	N
If 'N', circle approprie	nte problem: discurins	ected, atic	king, co	ndensatio	n, other:						_
CONTAINMENT AREA (T	ank Dike)										
Any material which spills, is	eaks or otherwise ac	numulates	in the o	like, includ	ding rain	water, mu	at be co	mpa <del>e</del> tely re	moved :	within 24	1 hou
Bollom and Walls		A	N	A	N	Α	N	Α	N	A	N
H*N", circle appropria chipped, deterioration	,		. ,	en dzums i	n diko j	conding/we	et apots	, stains, so —	alant is ,	pittod, ar	acko
Rigid Piping and Supports		A	N	A	N	Α	N	Α	N	A	N
EN', circle appropria	ite prol>'em: distortion	n, cormeio	n, paint	failure, lec	aks, othe	M:				-	-
	NTD DATE AND NO	NATURE &	E DEIIA	IDE OF N	LEG PTEA	IC INDIZA	ren ac	Chiene act	OEDY A	ы ёл.	Т
OBSERVATIONS, COMME	MIS, DATE AND NE	TUBLO	I PELFA	(Ma Ur Al	AT HEY	VOIONI QU	TELD PA	I INCLUMO	CELIN	DIT:	
					-						_
Fill in the Waste Type (e.g.		**A = A				Acceptable					

## ATTACHMENT C - Example Subpart CC Daily Inspection Form Page 3 of 3

Daily Inspection of CONTAINER STORAGE AREA (A separate log must be completed for each storage area.)

FRMITTED STORAGE VO	LUME.							A 14,000			
SPECTOR'S NAME/TITU	F	_						-			
		II		OR'S SK						FRIDAY	
MONDAY	TUESDAY	_	40	EDNESD	AY	T T	AGERUH	У		PHIDAY	
DATE: (M7 D7 Y)			Same of the	- I		_	<i>I</i> / ₂			JJ.	
CWE			-								
ONTAINERS		MC	N.	TU	E\$.	WE	D.	THU	IRS.	FF	RI.
stal Volume* of	** waste: [										
dal Volume of											
xal Volume of											
dal Volume of	^** waste:										
otal Volumo of											
OTAL YOLUME (IN GAULE	DNS					1				l	
		A ⁴	4# N	A	N	A	N	15	N	A	N
If 'N', circle appropriat	e problem: Total w	olunve e	xceeds I	the amour	it for whi	ch the faci	lity is per	millød,			
andition of Containers: If 'N', circle appropriat other:	e problem: missing	A or loos	N e iids, m	A nissing, ind	N consector	А псотр <i>ј</i> е	N te labels,	A rust, leak	N is, distort	A ion _i	N
ackag/Placement/Alsie \$	Space:	A	N	A	N	A	N	A	NE	A	N
if 'N', circle appropriate pallets, other:		t from F	an 8 Fl	oor Plan, i	ontaine	g no kan e	alleis, un	stable sta	cks, brok	en or dar	nage
THEMINIATHO											
urbing, Floor and Sumpls)	:	Α	NE	A	N	A	N	A	N	A	N
ny material which spills, li It being discovered.)											
It 'IV', circle appropriat	e problem: pondini		JOES, ORI	aucranore	(macks:	yaps, or,;					
ading/Un/oading Area:		Α	Né	A	N	A	N	Α	N	A	N
If 'N', circle appropriat	te problem: crácks,	delerío	ration, p	onding/w	el spois,	other:	W-11		-10-7		
DOEDWATIONS FORME	NTS, DATE AND N	ATURE	OF RE	PAIRS OF	ANY IT	EMS INDI	CATED A	S"NOT	ACCEPT	ABLE": _	
BSENTAL ICINO, OCINIVIC											

## ATTACHMENT D- Example Subpart CC Annual Tank Inspection

## ANNUAL INSPECTION LOG SHEET FOR EQUIPMENT THAT IS 'DIFFICULT TO MONITOR

INSPECTOR'S NAME:			_
INSPECTOR' S TITLE:	,		
INSPECTOR'S SIGNATURE:	-		
DATE (M/D/Y):			
ID #39 – NORMAL CONSERVA	TION VENTING	A	N
ID #40 - LONG BOLTED MANW	AY EMERGENCY VENTING	Å	N
If "N", circle appropriate problem: poperate smoothly, unusual odor, or _			s not
For all leaks and potential leaks, the completed.	Leak Detection and Repair Record n	nust be	
A = Acceptable			
N = Not Acceptable			